- X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM5/1-6600307-00001XX TrigonometryExercise7 Answers for No. 9594

$$
\text { Ans } 4=\left[\begin{array}{l}
.1=\left[B=60^{\circ}, C=90^{\circ}, c=168, \text { areaABC }=(3528 \sqrt{3}=6110.675)\right] \\
.2=\left[B=120^{\circ}, C=30^{\circ}, c=84, \text { areaABC }=(1764 \sqrt{3}=3055.338)\right]
\end{array}\right], \quad,\left[\begin{array}{c}
@ \\
M \\
U \\
T \\
:) \\
: D
\end{array}\right]
$$

$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{cc}
a=(42 \sqrt{2}=59.40) \\
. l=\left[\begin{array}{cc}
A=45^{\circ} & c=42 \\
B=105^{\circ} & b=(21 \sqrt{2}+21 \sqrt{2} \sqrt{3}=81.14) \\
C=30^{\circ} & a=72
\end{array}\right] \\
.2=\left[\begin{array}{lc}
A=60^{\circ} & \left(\begin{array}{cc}
\circ \\
B=75^{\circ} & b=(12 \sqrt{2} \sqrt{3}+36 \sqrt{2}=80.31 \\
C=45^{\circ} & c=(24 \sqrt{2} \sqrt{3}=58.79)
\end{array}\right]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right. \\
& \text { Ans } 2=\left[\begin{array}{c}
.1=\left[\begin{array}{cc}
A=15^{\circ} & a=(45 \sqrt{2} \sqrt{3}-45 \sqrt{2}=46.59) \\
B=30^{\circ} & b=90 \\
C=135^{\circ} & c=(90 \sqrt{2}=127.28)
\end{array}\right] \\
.2=\left[\begin{array}{lc}
A=60^{\circ} & a=78 \\
B=75^{\circ} & b=(13 \sqrt{2} \sqrt{3}+39 \sqrt{2}=87.00) \\
C=45^{\circ} & c=(26 \sqrt{2} \sqrt{3}=63.69)
\end{array}\right]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right] \\
& \text { Ans3 }=\left[\begin{array}{l}
.1=[\operatorname{areaABC}=(108 \sqrt{3}+324=511.061)] \\
.2=[\operatorname{areaABC}=(864-288 \sqrt{3}=365.169)]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right]
\end{aligned}
$$

X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM5/1-6600307-00002XX TrigonometryExercise7 Answers for No. 9608

$$
\text { Ans } 4=\left[\begin{array}{l}
.1=\left[B=60^{\circ}, C=90^{\circ}, c=156, \text { areaABC }=(3042 \sqrt{3}=5268.899)\right] \\
.2=\left[B=120^{\circ}, C=30^{\circ}, c=78, \text { areaABC }=(1521 \sqrt{3}=2634.449)\right]
\end{array}\right], \quad,\left[\begin{array}{c}
@ \\
M \\
U \\
T \\
:) \\
: D
\end{array}\right]
$$

[^0]\[

$$
\begin{aligned}
& \text { Ans } l=\left[\begin{array}{c} 
\\
. l=\left[\begin{array}{cc}
A=45^{\circ} & a=(30 \sqrt{2} \sqrt{3}=73.48) \\
B=75^{\circ} & b=(15 \sqrt{2} \sqrt{3}+45 \sqrt{2}=100.38) \\
C=60^{\circ} & c=90
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=45^{\circ} & a=90 \\
B=105^{\circ} & b=(45+45 \sqrt{3}=122.94) \\
C=30^{\circ} & c=(45 \sqrt{2}=63.64)
\end{array}\right],
\end{array}\right],\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right] \\
& A n s 2=\left[\begin{array}{c}
.1=\left[\begin{array}{cc}
A=75^{\circ} & a=(12 \sqrt{2} \sqrt{3}+36 \sqrt{2}=80.31) \\
B=60^{\circ} & b=72 \\
C=45^{\circ} & c=(24 \sqrt{2} \sqrt{3}=58.79)
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=30^{\circ} & a=54 \\
B=105^{\circ} & b=(27 \sqrt{2}+27 \sqrt{2} \sqrt{3}=104.32) \\
C=45^{\circ} & c=(54 \sqrt{2}=76.37)
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right] \\
& A n s 3=\left[\begin{array}{l}
.1=[\operatorname{areaABC}=(192 \sqrt{3}+576=908.554)] \\
.2=[\operatorname{areaABC}=(162+162 \sqrt{3}=442.592)]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right]
\end{aligned}
$$
\]

X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX $5 / 1-6600307-00003 X X$ TrigonometryExercise7 Answers for No. 9646

$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{c}
. l=\left[\begin{array}{cc}
A=105^{\circ} & a=(36+36 \sqrt{3}=98.35) \\
B=45^{\circ} & b=72 \\
C=30^{\circ} & c=(36 \sqrt{2}=50.91)
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=75^{\circ} & a=(14 \sqrt{2} \sqrt{3}+42 \sqrt{2}=93.69) \\
B=45^{\circ} & b=(28 \sqrt{2} \sqrt{3}=68.59) \\
C=60^{\circ} & c=84
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right] \\
& \text { Ans } 2=\left[\begin{array}{c}
.1=\left[\begin{array}{ll}
A=75^{\circ} & a=(27+27 \sqrt{3}=73.77) \\
B=60^{\circ} & b=(27 \sqrt{2} \sqrt{3}=66.14) \\
C=45^{\circ} & c=54
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=30^{\circ} & a=36 \\
B=30^{\circ} & b=36 \\
C=120^{\circ} & c=(36 \sqrt{3}=62.35)
\end{array}\right]
\end{array}\right],\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right] \\
& A n s 3=\left[\begin{array}{c}
.1=[\operatorname{areaABC}=(192 \sqrt{3}+576=908.554)] \\
.2=[\operatorname{areaABC}=(648 \sqrt{3}+1944=3066.369)]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right] \\
& \text { Ans } 4=\left[\begin{array}{l}
.1=\left[B=60^{\circ}, C=90^{\circ}, c=168, \operatorname{areaABC}=(3528 \sqrt{3}=6110.675)\right] \\
.2=\left[B=120^{\circ}, C=30^{\circ}, c=84, \operatorname{areaA} B C=(1764 \sqrt{3}=3055.338)\right]
\end{array}\right], \quad,\left[\begin{array}{c}
@ \\
M \\
U \\
T \\
: \\
: D
\end{array}\right]
\end{aligned}
$$

[^1]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM5/1-6600307-00004XX TrigonometryExercise7 Answers for No. 9649

$$
\begin{aligned}
& A n s l=\left[\begin{array}{cc}
a=72 \\
. l=\left[\begin{array}{cc}
A=60^{\circ} & b=(24 \sqrt{2} \sqrt{3}=58.79) \\
B=45^{\circ} & \\
C=75^{\circ} & c=(12 \sqrt{2} \sqrt{3}+36 \sqrt{2}=80.31)
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=15^{\circ} & a=(45 \sqrt{2} \sqrt{3}-45 \sqrt{2}=46.59) \\
B=30^{\circ} & b=90 \\
C=135^{\circ} & c=(90 \sqrt{2}=127.28)
\end{array}\right],
\end{array}\right],\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right] \\
& \text { Ans } 2=\left[\begin{array}{cc}
.1=\left[\begin{array}{cc}
A=135^{\circ} & a=(66 \sqrt{2}=93.34) \\
B=30^{\circ} & b=66 \\
C=15^{\circ} & c=(33 \sqrt{2} \sqrt{3}-33 \sqrt{2}=34.16)
\end{array}\right] \\
.2=\left[\begin{array}{lc}
A=75^{\circ} & a=(5 \sqrt{2} \sqrt{3}+15 \sqrt{2}=33.46) \\
B=45^{\circ} & b=(10 \sqrt{2} \sqrt{3}=24.49) \\
C=60^{\circ} & c=30
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right] \\
& A n s 3=\left[\begin{array}{c}
.1=[\operatorname{area} A B C=(162 \sqrt{3}+486=766.592)] \\
.2=[\operatorname{area} A B C=(588 \sqrt{3}+1764=2782.446)]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right]
\end{aligned}
$$

X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM5/1-6600307-00005XX TrigonometryExercise7 Answers for No. 9669

$$
\text { Ans } 4=\left[\begin{array}{l}
.1=\left[B=60^{\circ}, C=90^{\circ}, c=120, \text { areaABC }=(1800 \sqrt{3}=3117.691)\right] \\
.2=\left[B=120^{\circ}, C=30^{\circ}, c=60, \text { areaABC }=(900 \sqrt{3}=1558.846)\right]
\end{array}\right], \quad,\left[\begin{array}{c}
@ \\
M \\
U \\
T \\
:) \\
: D
\end{array}\right]
$$

[^2]\[

$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{c} 
\\
. l=\left[\begin{array}{cc}
A=30^{\circ} & a=(15 \sqrt{2}=21.21) \\
B=45^{\circ} & b=30 \\
C=105^{\circ} & c=(15+15 \sqrt{3}=40.98)
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=30^{\circ} & a=90 \\
B=45^{\circ} & b=(90 \sqrt{2}=127.28) \\
C=105^{\circ} & c=(45 \sqrt{2}+45 \sqrt{2} \sqrt{3}=173.87)
\end{array}\right]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right] \\
& A n s 2=\left[\begin{array}{c}
{\left[1=\left[\begin{array}{cc}
A=15^{\circ} & a=(30 \sqrt{2} \sqrt{3}-30 \sqrt{2}=31.06) \\
B=30^{\circ} & b=60 \\
C=135^{\circ} & c=(60 \sqrt{2}=84.85)
\end{array}\right]\right.} \\
.2=\left[\begin{array}{cc}
A=45^{\circ} & a=66 \\
B=30^{\circ} & b=(33 \sqrt{2}=46.67) \\
C=105^{\circ} & c=(33+33 \sqrt{3}=90.16)
\end{array}\right]
\end{array}\right],\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right] \\
& \text { Ans3 }=\left[\begin{array}{l}
.1=[\operatorname{areaABC}=(225+225 \sqrt{3}=614.711)] \\
.2=[\operatorname{areaABC}=(108 \sqrt{3}+324=511.061)]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right]
\end{aligned}
$$
\]

X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM5/1-6600307-00006XX TrigonometryExercise7 Answers for No. 9717

[^3]\[

$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{c}
. l=\left[\begin{array}{cc}
A=120^{\circ} & a=(72 \sqrt{3}=124.71) \\
B=30^{\circ} & b=72 \\
C=30^{\circ} & c=72
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=45^{\circ} & a=54 \\
B=120^{\circ} & b=(27 \sqrt{2} \sqrt{3}=66.14) \\
C=15^{\circ} & c=(27 \sqrt{3}-27=19.77)
\end{array}\right]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right] \\
& \left.A n s 2=\left[\begin{array}{c}
.1=\left[\begin{array}{lc}
A=60^{\circ} & a=66 \\
B=75^{\circ} & b=(11 \sqrt{2} \sqrt{3}+33 \sqrt{2}=73.61
\end{array}\right) \\
C=45^{\circ} \\
c=(22 \sqrt{2} \sqrt{3}=53.89)
\end{array}\right]\right]\left[\begin{array}{cc}
A=105^{\circ} & a=(39 \sqrt{2}+39 \sqrt{2} \sqrt{3}=150.68) \\
B=45^{\circ} & b=(78 \sqrt{2}=110.31) \\
C=30^{\circ} & c=78
\end{array}\right],\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right] \\
& A n s 3=\left[\begin{array}{l}
.1=[\operatorname{area} A B C=(162 \sqrt{3}+486=766.592)] \\
.2=[\operatorname{areaABC}=(225 \sqrt{3}-225=164.711)]
\end{array}\right] \quad, \quad\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right]
\end{aligned}
$$
\]

X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM5/1-6600307-00007XX TrigonometryExercise7 Answers for No. 9763

$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{c}
. l=\left[\begin{array}{cc}
A=45^{\circ} & a=(24 \sqrt{2} \sqrt{3}=58.79) \\
B=60^{\circ} & b=72 \\
C=75^{\circ} & c=(12 \sqrt{2} \sqrt{3}+36 \sqrt{2}=80.31
\end{array}\right)
\end{array}\right], \quad,\left[\begin{array}{cc}
A=30^{\circ} & a=36 \\
B=120^{\circ} & b=(36 \sqrt{3}=62.35) \\
C=30^{\circ} & c=36
\end{array}\right] \quad\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right] \\
& A n s 2=\left[\begin{array}{c}
.1=\left[\begin{array}{cc}
A=45^{\circ} & a=(26 \sqrt{2} \sqrt{3}=63.69) \\
B=60^{\circ} & b=78 \\
C=75^{\circ} & c=(13 \sqrt{2} \sqrt{3}+39 \sqrt{2}=87.00)
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=30^{\circ} & a=60 \\
B=120^{\circ} & b=(60 \sqrt{3}=103.92) \\
C=30^{\circ} & c=60
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right] \\
& \text { Ans3 }=\left[\begin{array}{c}
.1=[\operatorname{areaABC}=(507 \sqrt{3}+1521=2399.150)] \\
.2=[\operatorname{areaABC}=(2025 \sqrt{3}=3507.403)]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right] \\
& \text { Ans } 4=\left[\begin{array}{l}
.1=\left[B=60^{\circ}, C=90^{\circ}, c=180, \text { area } A B C=(4050 \sqrt{3}=7014.806)\right] \\
.2=\left[B=120^{\circ}, C=30^{\circ}, c=90, \text { area } A B C=(2025 \sqrt{3}=3507.403)\right]
\end{array}, \quad,\left[\begin{array}{c}
M \\
U \\
T \\
:) \\
: D
\end{array}\right]\right.
\end{aligned}
$$

X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM5/1-6600307-00008XX TrigonometryExercise7 Answers for No. 9877

$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{c}
a=66 \\
. l=\left[\begin{array}{cc}
A=60^{\circ} & {\left[\begin{array}{c}
\circ \\
B=75^{\circ} \\
C=45^{\circ}
\end{array}\right.} \\
c=(11 \sqrt{2} \sqrt{3}+33 \sqrt{2}=73.61) \\
C=\left[\begin{array}{c}
2 \\
A \\
A=45^{\circ}
\end{array}\right. & a=(54 \sqrt{2}=76.37) \\
B=30^{\circ} & b=54 \\
C=105^{\circ} & c=(27 \sqrt{2}+27 \sqrt{2} \sqrt{3}=104.32)
\end{array}\right]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right] \\
& A n s 2=\left[\begin{array}{c}
a=78 \\
.1=\left[\begin{array}{cc}
A=30^{\circ} & b=(78 \sqrt{2}=110.31) \\
B=135^{\circ} & (39 \sqrt{2} \sqrt{3}-39 \sqrt{2}=40.38) \\
C=15^{\circ} & c=\left(\begin{array}{c} 
\\
A=75^{\circ}
\end{array}\right. \\
a=(42+42 \sqrt{3}=114.75) \\
B=45^{\circ} & b=84 \\
C=60^{\circ} & c=(42 \sqrt{2} \sqrt{3}=102.88)
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right] \\
& A n s 3=\left[\begin{array}{l}
.1=\left[\operatorname{areaABC}=\left(\frac{1521 \sqrt{3}}{2}+\frac{4563}{2}=3598.725\right)\right] \\
.2=[\text { area } A B C=(1764+1764 \sqrt{3}=4819.338)]
\end{array}\right] \quad, \quad\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right]
\end{aligned}
$$

X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM5/1-6600307-00009XX TrigonometryExercise7 Answers for No. 9911

$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{cc}
.1=\left[\begin{array}{lc}
A=45^{\circ} & a=(30 \sqrt{2} \sqrt{3}=73.48) \\
B=60^{\circ} & b=90 \\
C=75^{\circ} & c=(15 \sqrt{2} \sqrt{3}+45 \sqrt{2}=100.38)
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=105^{\circ} & a=(30+30 \sqrt{3}=81.96) \\
B=30^{\circ} & b=(30 \sqrt{2}=42.43) \\
C=45^{\circ} & c=60
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right]
\end{aligned}
$$

$$
\begin{aligned}
& \text { Ans3 }=\left[\begin{array}{l}
.1=[\operatorname{area} A B C=(363 \sqrt{3}+1089=1717.734)] \\
.2=\left[\operatorname{area} A B C=\left(\frac{4563}{2}-\frac{1521 \sqrt{3}}{2}=964.275\right)\right]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right] \\
& \text { Ans } 4=\left[\begin{array}{l}
.1=\left[B=60^{\circ}, C=90^{\circ}, c=132, \text { area } A B C=(2178 \sqrt{3}=3772.407)\right] \\
.2=\left[B=120^{\circ}, C=30^{\circ}, c=66, \text { areaABC }=(1089 \sqrt{3}=1886.203)\right]
\end{array}\right],
\end{aligned}
$$

x [Page = 0009] xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM5/1-6600307-00010XX TrigonometryExercise7 Answers for No. 10027

$$
\text { Ans } 4=\left[\begin{array}{l}
.1=\left[B=60^{\circ}, C=90^{\circ}, c=84, \text { areaABC }=(882 \sqrt{3}=1527.669)\right] \\
.2=\left[B=120^{\circ}, C=30^{\circ}, c=42 \text {, areaABC }=(441 \sqrt{3}=763.834)\right]
\end{array}\right], \quad,\left[\begin{array}{c}
@ \\
M \\
U \\
T \\
:) \\
: D
\end{array}\right]
$$

x [Page = 0010] xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{c} 
\\
. l=\left[\begin{array}{cc}
A=45^{\circ} & a=(14 \sqrt{2} \sqrt{3}=34.29) \\
B=75^{\circ} & b=(7 \sqrt{2} \sqrt{3}+21 \sqrt{2}=46.84) \\
C=60^{\circ} & c=42
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=30^{\circ} & a=84 \\
B=15^{\circ} & b=(42 \sqrt{2} \sqrt{3}-42 \sqrt{2}=43.48) \\
C=135^{\circ} & c=(84 \sqrt{2}=118.79)
\end{array}\right]
\end{array}\right],\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{aligned}
$$

$$
\begin{aligned}
& \text { Ans3 }=\left[\begin{array}{l}
.1=[\operatorname{areaABC}=(324+324 \sqrt{3}=885.184)] \\
.2=[\operatorname{areaABC}=(450+450 \sqrt{3}=1229.423)]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right]
\end{aligned}
$$

X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM5/1-6600307-00011XX TrigonometryExercise7 Answers for No. 10063

$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{c}
a=72 \\
. l=\left[\begin{array}{cc}
A=60^{\circ} & b=(24 \sqrt{2} \sqrt{3}=58.79) \\
B=45^{\circ} & {\left[\begin{array}{c}
\circ \\
C=75^{\circ}
\end{array} c=(12 \sqrt{2} \sqrt{3}+36 \sqrt{2}=80.31)\right.}
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=135^{\circ} & a=(90 \sqrt{2}=127.28) \\
B=30^{\circ} & b=90 \\
C=15^{\circ} & c=(45 \sqrt{2} \sqrt{3}-45 \sqrt{2}=46.59)
\end{array}\right],
\end{array}\right],\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right] \\
& \text { Ans } \left.2=\left[\begin{array}{c}
a=\left[\begin{array}{cc}
A=30^{\circ} & a=90 \\
B=120^{\circ} & b=(90 \sqrt{3}=155.88
\end{array}\right) \\
C=30^{\circ}
\end{array}\right] \begin{array}{c}
c=90
\end{array}\right],\left[\begin{array}{cc}
A=45^{\circ} & a=(30 \sqrt{2} \sqrt{3}=73.48) \\
B=60^{\circ} & b=90 \\
C=75^{\circ} & c=(15 \sqrt{2} \sqrt{3}+45 \sqrt{2}=100.38)
\end{array}\right],\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right] \\
& A n s 3=\left[\begin{array}{c}
.1=[\operatorname{area} A B C=(2025 \sqrt{3}=3507.403)] \\
.2=[\operatorname{areaABC}=(363 \sqrt{3}+1089=1717.734)]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right] \\
& \text { Ans } 4=\left[\begin{array}{l}
.1=\left[B=60^{\circ}, C=75^{\circ}, c=(27+27 \sqrt{3}=73.77), \text { areaABC }=\left(\frac{729 \sqrt{3}}{2}+\frac{2187}{2}=1724.833\right)\right]\left[\begin{array}{l}
a \\
.2=\left[B=120^{\circ}, C=15^{\circ}, c=(27 \sqrt{3}-27=19.77), \operatorname{areaABC}=\left(\frac{2187}{2}-\frac{729 \sqrt{3}}{2}=462.167\right)\right] \\
M \\
U \\
T \\
T \\
: \\
: D
\end{array}\right]
\end{array}\right.
\end{aligned}
$$



X Math@MUT Xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxm $/ 1-6600307-00012 X x$ TrigonometryExercise 7 Answers for No. 10120

$$
\text { Ans } 4=\left[\begin{array}{l}
\left..1=\left[B=60^{\circ}, C=75^{\circ}, c=(15+15 \sqrt{3}=40.98), \text { areaABC=( } \frac{225 \sqrt{3}}{2}+\frac{675}{2}=532.356\right)\right] \\
\left..2=\left[B=120^{\circ}, C=15^{\circ}, c=(15 \sqrt{3}-15=10.98), \operatorname{areaABC}=\left(\frac{675}{2}-\frac{225 \sqrt{3}}{2}=142.644\right)\right]\right],\left[\begin{array}{c}
@ \\
M \\
U \\
T \\
:) \\
: D
\end{array}\right]
\end{array}\right]
$$

[^4]\[

$$
\begin{aligned}
& \text { Ans } l=\left[\begin{array}{cc}
a=90 \\
. l=\left[\begin{array}{cc}
A=60^{\circ} & {\left[\begin{array}{c}
\circ \\
B=75^{\circ} \\
C=45^{\circ}
\end{array}\right.} \\
.2=(15 \sqrt{2} \sqrt{3}+45 \sqrt{2}=100.38)
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=105^{\circ} & a=(45 \sqrt{2}+45 \sqrt{2} \sqrt{3}=173.87) \\
B=30^{\circ} & b=90 \\
C=45^{\circ} & c=(90 \sqrt{2}=127.28)
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right] \\
& A n s 2=\left[\begin{array}{c}
. l=\left[\begin{array}{lc}
A=60^{\circ} & a=(30 \sqrt{2} \sqrt{3}=73.48) \\
B=45^{\circ} & b=60 \\
C=75^{\circ} & c=(30+30 \sqrt{3}=81.96)
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=45^{\circ} & a=(10 \sqrt{2} \sqrt{3}=24.49) \\
B=75^{\circ} & b=(5 \sqrt{2} \sqrt{3}+15 \sqrt{2}=33.46) \\
C=60^{\circ} & c=30
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right],\left[\begin{array}{c} 
\\
\hline
\end{array}\right] .\left[\begin{array}{c} 
\\
\hline
\end{array}\right]
\end{array}\right] \\
& A n s 3=\left[\begin{array}{c}
.1=[\operatorname{area} A B C=(147 \sqrt{3}+441=695.611)] \\
.2=[\operatorname{areaABC}=(1296+1296 \sqrt{3}=3540.738)]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right]
\end{aligned}
$$
\]

X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX $5 / 1-6600307-00013 X X$ TrigonometryExercise7 Answers for No. 10367

$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{cc}
a=42 \\
. l=\left[\begin{array}{cc}
A=60^{\circ} & b=(14 \sqrt{2} \sqrt{3}=34.29) \\
B=45^{\circ} & \\
C=75^{\circ} & c=(7 \sqrt{2} \sqrt{3}+21 \sqrt{2}=46.84)
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=15^{\circ} & a=(36 \sqrt{3}-36=26.35) \\
B=120^{\circ} & b=(36 \sqrt{2} \sqrt{3}=88.18) \\
C=45^{\circ} & c=72
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right] \\
& A n s 2=\left[\begin{array}{cc}
a=36 \\
. l=\left[\begin{array}{cc}
A=60^{\circ} & \\
B=75^{\circ} & b=(6 \sqrt{2} \sqrt{3}+18 \sqrt{2}=40.15) \\
C=45^{\circ} & c=(12 \sqrt{2} \sqrt{3}=29.39)
\end{array}\right] \\
.2=\left[\begin{array}{ll}
A=120^{\circ} & a=(30 \sqrt{2} \sqrt{3}=73.48) \\
B=15^{\circ} & b=(30 \sqrt{3}-30=21.96) \\
C=45^{\circ} & c=60
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right] \\
& A n s 3=\left[\begin{array}{c}
.1=[\operatorname{areaABC}=(1296 \sqrt{3}=2244.738)] \\
.2=\left[\operatorname{areaABC}=\left(\frac{3267}{2}-\frac{1089 \sqrt{3}}{2}=690.398\right)\right]
\end{array}\right],\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right] \\
& \text { Ans } 4=\left[\begin{array}{l}
.1=\left[B=60^{\circ}, C=75^{\circ}, c=(24+24 \sqrt{3}=65.57), \operatorname{areaABC}=(288 \sqrt{3}+864=1362.831)\right] \\
.2=\left[B=120^{\circ}, C=15^{\circ}, c=(24 \sqrt{3}-24=17.57), \operatorname{areaABC}=(864-288 \sqrt{3}=365.169)\right]
\end{array}\right], \quad, \quad\left[\begin{array}{c}
M \\
U \\
T \\
:) \\
: D
\end{array}\right]
\end{aligned}
$$

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$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{c}
. l=\left[\begin{array}{cc}
A=15^{\circ} & a=(24 \sqrt{3}-24=17.57) \\
B=120^{\circ} & b=(24 \sqrt{2} \sqrt{3}=58.79) \\
C=45^{\circ} & c=48
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=30^{\circ} & a=60 \\
B=105^{\circ} & b=(30 \sqrt{2}+30 \sqrt{2} \sqrt{3}=115.91 \\
C=45^{\circ} & c=(60 \sqrt{2}=84.85)
\end{array}\right]
\end{array}\right],\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right] \\
& A n s 2=\left[\begin{array}{c}
.1=\left[\begin{array}{cc}
A=75^{\circ} & a=(42+42 \sqrt{3}=114.75) \\
B=45^{\circ} & b=84 \\
C=60^{\circ} & c=(42 \sqrt{2} \sqrt{3}=102.88)
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=105^{\circ} & a=(33 \sqrt{2}+33 \sqrt{2} \sqrt{3}=127.50) \\
B=45^{\circ} & b=(66 \sqrt{2}=93.34) \\
C=30^{\circ} & c=66
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right] \\
& \text { Ans } 3=\left[\begin{array}{c}
.1=[\operatorname{areaABC}=(507 \sqrt{3}+1521=2399.150)] \\
.2=[\operatorname{areaABC}=(729 \sqrt{3}=1262.665)]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right] \\
& \text { Ans } 4=\left[\begin{array}{l}
.1=\left[B=60^{\circ}, C=75^{\circ}, c=(27+27 \sqrt{3}=73.77), \operatorname{areaABC}=\left(\frac{729 \sqrt{3}}{2}+\frac{2187}{2}=1724.833\right)\right]\left[\begin{array}{c}
a \\
.2=\left[B=120^{\circ}, C=15^{\circ}, c=(27 \sqrt{3}-27=19.77), \operatorname{areaABC}=\left(\frac{2187}{2}-\frac{729 \sqrt{3}}{2}=462.167\right)\right]
\end{array}\right]\left[\begin{array}{c}
a \\
M \\
U \\
T \\
:) \\
: D
\end{array}\right]
\end{array}\right.
\end{aligned}
$$



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$$
\text { Ans } 4=\left[\begin{array}{l}
.1=\left[B=60^{\circ}, C=90^{\circ}, c=144, \text { areaABC }=(2592 \sqrt{3}=4489.476)\right] \\
.2=\left[B=120^{\circ}, C=30^{\circ}, c=72, \text { areaABC }=(1296 \sqrt{3}=2244.738)\right]
\end{array}\right], \quad,\left[\begin{array}{c}
@ \\
M \\
U \\
T \\
:) \\
: D
\end{array}\right]
$$

[^5]\[

$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{c}
1=\left[\begin{array}{lc}
A=60^{\circ} & a=(15 \sqrt{2} \sqrt{3}=36.74) \\
B=45^{\circ} & b=30 \\
C=75^{\circ} & c=(15+15 \sqrt{3}=40.98)
\end{array}\right] \\
.2=\left[\begin{array}{lc}
A=30^{\circ} & a=60 \\
B=120^{\circ} & b=(60 \sqrt{3}=103.92) \\
C=30^{\circ} & c=60
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right. \\
& \text { Ans } 2=\left[\begin{array}{c}
a=72 \\
.1=\left[\begin{array}{cc}
A=30^{\circ} & a=120^{\circ} \\
B=(72 \sqrt{3}=124.71
\end{array}\right) \\
C=30^{\circ}
\end{array}\right],\left[\begin{array}{cc}
A=30^{\circ} & a=(36 \sqrt{2}=50.91) \\
B=105^{\circ} & b=(36+36 \sqrt{3}=98.35) \\
C=45^{\circ} & c=72
\end{array}\right],\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right] \\
& A n s 3=\left[\begin{array}{c}
.1=[\operatorname{areaABC}=(864-288 \sqrt{3}=365.169)] \\
.2=[\operatorname{areaABC}=(2025 \sqrt{3}=3507.403)]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right]
\end{aligned}
$$
\]

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$$
\begin{aligned}
& A n s 2=\left[\begin{array}{c}
a=84 \\
. l=\left[\begin{array}{cc}
A=45^{\circ} & {\left[\begin{array}{c}
0 \\
B=120^{\circ} \\
C=15^{\circ}
\end{array}\right.} \\
c=(42 \sqrt{2} \sqrt{3}=102.88) \\
3=72 & -42=30.75)
\end{array}\right] \\
.2=\left[\begin{array}{lc}
A=75^{\circ} & a=(7 \sqrt{2} \sqrt{3}+21 \sqrt{2}=46.84) \\
B=45^{\circ} & b=(14 \sqrt{2} \sqrt{3}=34.29) \\
C=60^{\circ} & c=42
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right] \\
& \text { Ans3 }=\left[\begin{array}{l}
.1=[\operatorname{areaABC}=(1296+1296 \sqrt{3}=3540.738)] \\
.2=\left[\operatorname{areaABC}=\left(\frac{675}{2}-\frac{225 \sqrt{3}}{2}=142.644\right)\right]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right] \\
& \text { Ans } 4=\left[\begin{array}{l}
.1=\left[B=60^{\circ}, C=75^{\circ}, c=(24+24 \sqrt{3}=65.57), \operatorname{areaABC}=(288 \sqrt{3}+864=1362.831)\right] \\
.2=\left[B=120^{\circ}, C=15^{\circ}, c=(24 \sqrt{3}-24=17.57), \operatorname{areaABC}=(864-288 \sqrt{3}=365.169)\right]
\end{array}\right], \quad, \quad\left[\begin{array}{c}
M \\
U \\
T \\
:) \\
: D
\end{array}\right]
\end{aligned}
$$

X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX $5 / 1-6600307-00017 X x$ TrigonometryExercise7 Answers for No. 10628

$$
\begin{aligned}
& A n s l=\left[\begin{array}{c} 
\\
. l=\left[\begin{array}{cc}
A=30^{\circ} & a=(30 \sqrt{2}=42.43) \\
B=45^{\circ} & b=60 \\
C=105^{\circ} & c=(30+30 \sqrt{3}=81.96)
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=60^{\circ} & a=60 \\
B=45^{\circ} & b=(20 \sqrt{2} \sqrt{3}=48.99) \\
C=75^{\circ} & c=(10 \sqrt{2} \sqrt{3}+30 \sqrt{2}=66.92)
\end{array}\right]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right] \\
& A n s 2=\left[\begin{array}{cc}
a=78 \\
.1=\left[\begin{array}{cc}
A=60^{\circ} & b=(26 \sqrt{2} \sqrt{3}=63.69) \\
B=45^{\circ} & \\
C=75^{\circ} & c=(13 \sqrt{2} \sqrt{3}+39 \sqrt{2}=87.00)
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=105^{\circ} & a=(21+21 \sqrt{3}=57.37) \\
B=30^{\circ} & b=(21 \sqrt{2}=29.70) \\
C=45^{\circ} & c=42
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right] \\
& \text { Ans3 }=\left[\begin{array}{c}
.1=[\operatorname{areaABC}=(324+324 \sqrt{3}=885.184)] \\
.2=[\operatorname{areaABC}=(648 \sqrt{3}+1944=3066.369)]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right] \\
& \text { Ans } 4=\left[\begin{array}{l}
.1=\left[B=60^{\circ}, C=75^{\circ}, c=(24+24 \sqrt{3}=65.57), \text { area } A B C=(288 \sqrt{3}+864=1362.831)\right] \\
.2=\left[B=120^{\circ}, C=15^{\circ}, c=(24 \sqrt{3}-24=17.57), \operatorname{areaABC}=(864-288 \sqrt{3}=365.169)\right]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
U \\
T \\
:) \\
: D
\end{array}\right]
\end{aligned}
$$

X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM5/1-6600307-00018XX TrigonometryExercise7 Answers for No. 11408

$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{c}
{\left[\begin{array}{cc}
A=45^{\circ} & a=(18 \sqrt{2} \sqrt{3}=44.09) \\
B=60^{\circ} & b=54 \\
C=75^{\circ} & c=(9 \sqrt{2} \sqrt{3}+27 \sqrt{2}=60.23)
\end{array}\right]} \\
.2=\left[\begin{array}{lc}
A=120^{\circ} & a=(15 \sqrt{2} \sqrt{3}=36.74) \\
B=15^{\circ} & b=(15 \sqrt{3}-15=10.98) \\
C=45^{\circ} & c=30
\end{array}\right],\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right] \\
& \text { Ans } 2=\left[\begin{array}{c}
a=66 \\
.1=\left[\begin{array}{cc}
A=60^{\circ} & \left(\begin{array}{cc}
0 \\
B=75^{\circ} & b=(11 \sqrt{2} \sqrt{3}+33 \sqrt{2}=73.61
\end{array}\right) \\
C=45^{\circ} & c=(22 \sqrt{2} \sqrt{3}=53.89)
\end{array}\right] \\
.2=\left[\begin{array}{ll}
A=60^{\circ} & a=(27 \sqrt{2} \sqrt{3}=66.14) \\
B=75^{\circ} & b=(27+27 \sqrt{3}=73.77) \\
C=45^{\circ} & c=54
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right] \\
& \text { Ans } 3=\left[\begin{array}{c}
. l=[\operatorname{areaABC}=(75 \sqrt{3}+225=354.904)] \\
.2=[\operatorname{areaABC}=(1296 \sqrt{3}-1296=948.738)]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right]
\end{aligned}
$$

X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM5/1-6600307-00019XX TrigonometryExercise7 Answers for No. 11560

$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{c}
a=36 \\
. l=\left[\begin{array}{cc}
A=30^{\circ} & a \\
B=105^{\circ} & b=(18 \sqrt{2}+18 \sqrt{2} \sqrt{3}=69.55) \\
C=45^{\circ} & c=(36 \sqrt{2}=50.91)
\end{array}\right] \\
.2=\left[\begin{array}{lc}
A=60^{\circ} & a=(18 \sqrt{2} \sqrt{3}=44.09) \\
B=75^{\circ} & b=(18+18 \sqrt{3}=49.18) \\
C=45^{\circ} & c=36
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right] \\
& \text { Ans } 2=\left[\begin{array}{c}
.1=\left[\begin{array}{cc}
A=75^{\circ} & a=(7 \sqrt{2} \sqrt{3}+21 \sqrt{2}=46.84) \\
B=60^{\circ} & b=42 \\
C=45^{\circ} & c=(14 \sqrt{2} \sqrt{3}=34.29)
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=30^{\circ} & a=54 \\
B=45^{\circ} & b=(54 \sqrt{2}=76.37) \\
C=105^{\circ} & c=(27 \sqrt{2}+27 \sqrt{2} \sqrt{3}=104.32)
\end{array}\right]
\end{array}\right],\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right] \\
& \text { Ans3 }=\left[\begin{array}{l}
.1=[\operatorname{areaABC}=(675 \sqrt{3}+2025=3194.134)] \\
.2=[\operatorname{areaABC}=(1764+1764 \sqrt{3}=4819.338)]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right]
\end{aligned}
$$



X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM5/1-6600307-00020XX TrigonometryExercise7 Answers for No. 11806

$$
\begin{aligned}
& A n s l=\left[\begin{array}{c}
. l=\left[\begin{array}{cc}
A=75^{\circ} & a=(14 \sqrt{2} \sqrt{3}+42 \sqrt{2}=93.69) \\
B=60^{\circ} & b=84 \\
C=45^{\circ} & c=(28 \sqrt{2} \sqrt{3}=68.59)
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=30^{\circ} & a=48 \\
B=135^{\circ} & b=(48 \sqrt{2}=67.88) \\
C=15^{\circ} & c=(24 \sqrt{2} \sqrt{3}-24 \sqrt{2}=24.85)
\end{array}\right]
\end{array}\right],\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{aligned}
$$

$$
\begin{aligned}
& \text { Ans3 } 3=\left[\begin{array}{l}
.1=[\operatorname{area} A B C=(1089 \sqrt{3}-1089=797.203)] \\
.2=\left[\operatorname{areaABC}=\left(\frac{675}{2}-\frac{225 \sqrt{3}}{2}=142.644\right)\right]
\end{array}\right],\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right] \\
& \text { Ans } 4=\left[\begin{array}{l}
.1=\left[B=60^{\circ}, C=90^{\circ}, c=156, \text { area } A B C=(3042 \sqrt{3}=5268.899)\right] \\
.2=\left[B=120^{\circ}, C=30^{\circ}, c=78, \operatorname{area} A B C=(1521 \sqrt{3}=2634.449)\right]
\end{array}\right],
\end{aligned}
$$

x [Page = 0020] xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM5/1-6600307-00021XX TrigonometryExercise7 Answers for No. 12219

$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{c}
a=36 \\
. l=\left[\begin{array}{cc}
A=45^{\circ} & b=(18 \sqrt{2}=25.46) \\
B=30^{\circ} & b=18) \\
C=105^{\circ} & c=(18+18 \sqrt{3}=49.18)
\end{array}\right. \\
.2=\left[\begin{array}{cc}
A=75^{\circ} & a=(7 \sqrt{2} \sqrt{3}+21 \sqrt{2}=46.84) \\
B=45^{\circ} & b=(14 \sqrt{2} \sqrt{3}=34.29) \\
C=60^{\circ} & c=42
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right] \\
& A n s 2=\left[\begin{array}{c}
.1=\left[\begin{array}{cc}
A=75^{\circ} & a=(6 \sqrt{2} \sqrt{3}+18 \sqrt{2}=40.15) \\
B=60^{\circ} & b=36 \\
C=45^{\circ} & c=(12 \sqrt{2} \sqrt{3}=29.39)
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=105^{\circ} & a=(33 \sqrt{2}+33 \sqrt{2} \sqrt{3}=127.50) \\
B=45^{\circ} & b=(66 \sqrt{2}=93.34) \\
C=30^{\circ} & c=66
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right. \\
& A n s 3=\left[\begin{array}{c}
.1=[\operatorname{area} A B C=(900 \sqrt{3}-900=658.846)] \\
.2=\left[\operatorname{area} A B C=\left(\frac{4563}{2}-\frac{1521 \sqrt{3}}{2}=964.275\right)\right]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right]
\end{aligned}
$$

x [Page = 0021] xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx $:$

X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM5/1-6600307-00022XX TrigonometryExercise7 Answers for No. 12954

$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{c}
{\left[\begin{array}{cc}
A=45^{\circ} & a=(22 \sqrt{2} \sqrt{3}=53.89) \\
B=60^{\circ} & b=66 \\
C=75^{\circ} & c=(11 \sqrt{2} \sqrt{3}+33 \sqrt{2}=73.61)
\end{array}\right]} \\
.2=\left[\begin{array}{lc}
A=120^{\circ} & a=(33 \sqrt{2} \sqrt{3}=80.83) \\
B=15^{\circ} & b=(33 \sqrt{3}-33=24.16) \\
C=45^{\circ} & c=66
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right] \\
& A n s 2=\left[\begin{array}{c}
.1=\left[\begin{array}{cc}
A=60^{\circ} & a=(18 \sqrt{2} \sqrt{3}=44.09) \\
B=75^{\circ} & b=(18+18 \sqrt{3}=49.18) \\
C=45^{\circ} & c=36
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=45^{\circ} & a=(22 \sqrt{2} \sqrt{3}=53.89) \\
B=60^{\circ} & b=66 \\
C=75^{\circ} & c=(11 \sqrt{2} \sqrt{3}+33 \sqrt{2}=73.61)
\end{array}\right]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right] \\
& \operatorname{Ans} 3=\left[\begin{array}{c}
.1=[\operatorname{area} A B C=(900+900 \sqrt{3}=2458.846)] \\
.2=\left[\operatorname{areaABC}=\left(\frac{1521}{2}+\frac{1521 \sqrt{3}}{2}=2077.725\right)\right]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right] \\
& \text { Ans } 4=\left[\begin{array}{l}
.1=\left[B=60^{\circ}, C=90^{\circ}, c=132, \text { area } A B C=(2178 \sqrt{3}=3772.407)\right] \\
.2=\left[B=120^{\circ}, C=30^{\circ}, c=66, \text { areaABC }=(1089 \sqrt{3}=1886.203)\right]
\end{array}\right],
\end{aligned}
$$

x [Page = 0022] xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM5/1-6600307-00023XX TrigonometryExercise7 Answers for No. 12964

$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{cc}
.1=\left[\begin{array}{cc}
A=135^{\circ} & a=(36 \sqrt{2}=50.91) \\
B=15^{\circ} & b=(18 \sqrt{2} \sqrt{3}-18 \sqrt{2}=18.63) \\
C=30^{\circ} & c=36
\end{array}\right] \\
.2=\left[\begin{array}{lc}
A=75^{\circ} & a=(15 \sqrt{2} \sqrt{3}+45 \sqrt{2}=100.38) \\
B=60^{\circ} & b=90 \\
C=45^{\circ} & c=(30 \sqrt{2} \sqrt{3}=73.48)
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right. \\
& A n s 2=\left[\begin{array}{cc}
.1=\left[\begin{array}{cc}
A=60^{\circ} & a=48 \\
B=45^{\circ} & b=(16 \sqrt{2} \sqrt{3}=39.19) \\
C=75^{\circ} & c=(8 \sqrt{2} \sqrt{3}+24 \sqrt{2}=53.54)
\end{array}\right], \quad,\left[\begin{array}{cc}
A=30^{\circ} & a=72 \\
B=30^{\circ} & b=72 \\
C=120^{\circ} & c=(72 \sqrt{3}=124.71)
\end{array}\right]
\end{array}\right] \quad\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right] \\
& A n s 3=\left[\begin{array}{l}
.1=[\operatorname{areaABC}=(588 \sqrt{3}+1764=2782.446)] \\
.2=[\operatorname{areaABC}=(1350-450 \sqrt{3}=570.577)]
\end{array}\right] \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right] \\
& \text { Ans } 4=\left[\begin{array}{l}
. l=\left[B=60^{\circ}, C=75^{\circ}, c=(18+18 \sqrt{3}=49.18), \operatorname{areaABC}=(162 \sqrt{3}+486=766.592)\right] \\
.2=\left[B=120^{\circ}, C=15^{\circ}, c=(18 \sqrt{3}-18=13.18), \operatorname{area} A B C=(486-162 \sqrt{3}=205.408)\right]
\end{array}\right], \\
& ,\left[\begin{array}{c}
@ \\
M \\
U \\
T \\
:) \\
: D
\end{array}\right]
\end{aligned}
$$



X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM5/1-6600307-00024XX TrigonometryExercise7 Answers for No. 12971

$$
\begin{aligned}
& \text { Ans } 1=\left[\begin{array}{c}
a=48 \\
. l=\left[\begin{array}{cc}
A=30^{\circ} & b=(48 \sqrt{2}=67.88) \\
B=135^{\circ} & \\
C=15^{\circ} & c=(24 \sqrt{2} \sqrt{3}-24 \sqrt{2}=24.85)
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=15^{\circ} & a=(24 \sqrt{3}-24=17.57) \\
B=45^{\circ} & b=48 \\
C=120^{\circ} & c=(24 \sqrt{2} \sqrt{3}=58.79)
\end{array}\right]
\end{array}\right],\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right] \\
& A n s 2=\left[\begin{array}{c}
. l=\left[\begin{array}{cc}
A=15^{\circ} & a=(15 \sqrt{3}-15=10.98) \\
B=45^{\circ} & b=30 \\
C=120^{\circ} & c=(15 \sqrt{2} \sqrt{3}=36.74)
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=135^{\circ} & a=(72 \sqrt{2}=101.82) \\
B=15^{\circ} & b=(36 \sqrt{2} \sqrt{3}-36 \sqrt{2}=37.27) \\
C=30^{\circ} & c=72
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right] \\
& \text { Ans } 3=\left[\begin{array}{c}
.1=[\operatorname{areaABC}=(588 \sqrt{3}+1764=2782.446)] \\
.2=[\operatorname{areaABC}=(576 \sqrt{3}-576=421.661)]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right] \\
& \text { Ans } 4=\left[\begin{array}{l}
.1=\left[B=60^{\circ}, C=90^{\circ}, c=60, \operatorname{areaABC}=(450 \sqrt{3}=779.423)\right] \\
.2=\left[B=120^{\circ}, C=30^{\circ}, c=30, \operatorname{areaABC} C(225 \sqrt{3}=389.711)\right]
\end{array}\right], \quad, \quad\left[\begin{array}{c}
@ \\
M \\
U \\
T \\
:) \\
: D
\end{array}\right]
\end{aligned}
$$



X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM5/1-6600307-00025XX TrigonometryExercise7 Answers for No. 13023

$$
\begin{aligned}
& \text { Ans } 2=\left[\begin{array}{c}
{\left[\begin{array}{cc}
A=135^{\circ} & a=(48 \sqrt{2}=67.88) \\
B=30^{\circ} & b=48 \\
C=15^{\circ} & c=(24 \sqrt{2} \sqrt{3}-24 \sqrt{2}=24.85)
\end{array}\right]} \\
.2=\left[\begin{array}{lc}
A=60^{\circ} & a=(21 \sqrt{2} \sqrt{3}=51.44) \\
B=75^{\circ} & b=(21+21 \sqrt{3}=57.37) \\
C=45^{\circ} & c=42
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right] \\
& \text { Ans3 }=\left[\begin{array}{l}
.1=[\operatorname{areaABC}=(363 \sqrt{3}+1089=1717.734)] \\
.2=[\operatorname{areaABC}=(576+576 \sqrt{3}=1573.661)]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right] \\
& \text { Ans } 4=\left[\begin{array}{l}
.1=\left[B=60^{\circ}, C=75^{\circ}, c=(21+21 \sqrt{3}=57.37), \operatorname{areaABC}=\left(\frac{441 \sqrt{3}}{2}+\frac{1323}{2}=1043.417\right)\right]\left[\begin{array}{c}
0 \\
.2=\left[B=120^{\circ}, C=15^{\circ}, c=(21 \sqrt{3}-21=15.37), \operatorname{areaABC}=\left(\frac{1323}{2}-\frac{441 \sqrt{3}}{2}=279.583\right)\right]
\end{array}\right]\left[\begin{array}{c}
a \\
M \\
U \\
T \\
: \\
: D
\end{array}\right]
\end{array}\right.
\end{aligned}
$$



X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM5/1-6600307-00026XX TrigonometryExercise7 Answers for No. 13033

$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{c}
.1=\left[\begin{array}{cc}
A=45^{\circ} & a=(14 \sqrt{2} \sqrt{3}=34.29) \\
B=60^{\circ} & b=42 \\
C=75^{\circ} & c=(7 \sqrt{2} \sqrt{3}+21 \sqrt{2}=46.84)
\end{array}\right] \\
{\left[\begin{array}{cc}
A=30^{\circ} & a=84 \\
B=120^{\circ} & b=(84 \sqrt{3}=145.49) \\
C=30^{\circ} & c=84
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]}
\end{array}\right] \\
& A n s 2=\left[\begin{array}{c}
{\left[\begin{array}{cc}
A=30^{\circ} & a=(21 \sqrt{2}=29.70) \\
B=45^{\circ} & b=42 \\
C=105^{\circ} & c=(21+21 \sqrt{3}=57.37)
\end{array}\right]} \\
.2=\left[\begin{array}{cc}
A=105^{\circ} & a=(27 \sqrt{2}+27 \sqrt{2} \sqrt{3}=104.32) \\
B=45^{\circ} & b=(54 \sqrt{2}=76.37) \\
C=30^{\circ} & c=54
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right] \\
& \text { Ans3 }=\left[\begin{array}{c}
.1=[\operatorname{areaABC}=(1089 \sqrt{3}-1089=797.203)] \\
.2=\left[\operatorname{areaABC}=\left(\frac{2025 \sqrt{3}}{2}+\frac{6075}{2}=4791.201\right)\right]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right] \\
& \text { Ans } 4=\left[\begin{array}{l}
.1=\left[B=60^{\circ}, C=90^{\circ}, c=132, \text { area } A B C=(2178 \sqrt{3}=3772.407)\right] \\
.2=\left[B=120^{\circ}, C=30^{\circ}, c=66, \text { area } A B C=(1089 \sqrt{3}=1886.203)\right]
\end{array}, \quad,\left[\begin{array}{c}
M \\
U \\
T \\
:) \\
: D
\end{array}\right]\right.
\end{aligned}
$$

[^6]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM5/1-6600307-00027XX TrigonometryExercise7 Answers for No. 13197

$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{c}
{\left[\begin{array}{cc}
A=15^{\circ} & a=(36 \sqrt{3}-36=26.35) \\
B=120^{\circ} & b=(36 \sqrt{2} \sqrt{3}=88.18) \\
C=45^{\circ} & c=72
\end{array}\right]} \\
.2=\left[\begin{array}{cc}
A=45^{\circ} & a=(90 \sqrt{2}=127.28) \\
B=30^{\circ} & b=90 \\
C=105^{\circ} & c=(45 \sqrt{2}+45 \sqrt{2} \sqrt{3}=173.87)
\end{array}\right]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right] \\
& \text { Ans } 2=\left[\begin{array}{cc}
a=78 \\
.1=\left[\begin{array}{cc}
A=30^{\circ} & b=(78 \sqrt{2}=110.31) \\
B=135^{\circ} & \\
C=15^{\circ} & c=(39 \sqrt{2} \sqrt{3}-39 \sqrt{2}=40.38)
\end{array}\right] \\
.2=\left[\begin{array}{lc}
A=45^{\circ} & a=(22 \sqrt{2} \sqrt{3}=53.89) \\
B=60^{\circ} & b=66 \\
C=75^{\circ} & c=(11 \sqrt{2} \sqrt{3}+33 \sqrt{2}=73.61)
\end{array}\right]
\end{array}\right],\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right] \\
& A n s 3=\left[\begin{array}{l}
.1=\left[\operatorname{areaABC}=\left(\frac{1521}{2}+\frac{1521 \sqrt{3}}{2}=2077.725\right)\right] \\
.2=[\operatorname{areaABC}=(432 \sqrt{3}+1296=2044.246)]
\end{array}\right] \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right] \\
& \text { Ans } 4=\left[\begin{array}{l}
.1=\left[B=60^{\circ}, C=75^{\circ}, c=(27+27 \sqrt{3}=73.77), \operatorname{areaABC}=\left(\frac{729 \sqrt{3}}{2}+\frac{2187}{2}=1724.833\right)\right]\left[\begin{array}{c}
a \\
.2=\left[B=120^{\circ}, C=15^{\circ}, c=(27 \sqrt{3}-27=19.77), \operatorname{areaABC}=\left(\frac{2187}{2}-\frac{729 \sqrt{3}}{2}=462.167\right)\right]
\end{array}\right]\left[\begin{array}{c}
a \\
M \\
U \\
T \\
:) \\
: D
\end{array}\right]
\end{array}\right.
\end{aligned}
$$

[^7]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM5/1-6600307-00028XX TrigonometryExercise7 Answers for No. 13907

$$
\begin{aligned}
& \text { Ans } 2=\left[\begin{array}{c}
a=90 \\
. l=\left[\begin{array}{cc}
A=45^{\circ} & {\left[\begin{array}{c}
a \\
B=105^{\circ} \\
C=30^{\circ}
\end{array}\right.} \\
. b=(45+45 \sqrt{3}=122.94)
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=105^{\circ} & a=(18 \sqrt{2}+18 \sqrt{2} \sqrt{3}=69.55) \\
B=30^{\circ} & b=36 \\
C=45^{\circ} & c=(36 \sqrt{2}=50.91)
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right] \\
& A n s 3=\left[\begin{array}{l}
.1=[\operatorname{areaABC}=(507 \sqrt{3}+1521=2399.150)] \\
.2=[\operatorname{areaABC}=(648 \sqrt{3}+1944=3066.369)]
\end{array}\right] \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right] \\
& \text { Ans } 4=\left[\begin{array}{l}
.1=\left[B=60^{\circ}, C=75^{\circ}, c=(24+24 \sqrt{3}=65.57), \operatorname{areaABC}=(288 \sqrt{3}+864=1362.831)\right] \\
.2=\left[B=120^{\circ}, C=15^{\circ}, c=(24 \sqrt{3}-24=17.57), \operatorname{areaABC}=(864-288 \sqrt{3}=365.169)\right]
\end{array}\right], \quad, \quad\left[\begin{array}{c}
M \\
U \\
T \\
:) \\
: D
\end{array}\right]
\end{aligned}
$$

[^8]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM5/1-6600307-00029XX TrigonometryExercise7 Answers for No. 13991

$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{c} 
\\
. l=\left[\begin{array}{cc}
A=75^{\circ} & a=(36+36 \sqrt{3}=98.35) \\
B=60^{\circ} & b=(36 \sqrt{2} \sqrt{3}=88.18) \\
C=45^{\circ} & c=72
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=45^{\circ} & a=(48 \sqrt{2}=67.88) \\
B=30^{\circ} & b=48 \\
C=105^{\circ} & c=(24 \sqrt{2}+24 \sqrt{2} \sqrt{3}=92.73)
\end{array}\right]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right] \\
& A n s 2=\left[\begin{array}{c}
a=54 \\
. l=\left[\begin{array}{cc}
A=60^{\circ} & \left(\begin{array}{cc}
0 \\
B=75^{\circ} & b=(9 \sqrt{2} \sqrt{3}+27 \sqrt{2}=60.23) \\
C=45^{\circ} & c=(18 \sqrt{2} \sqrt{3}=44.09)
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=105^{\circ} & a=(45 \sqrt{2}+45 \sqrt{2} \sqrt{3}=173.87) \\
B=30^{\circ} & b=90 \\
C=45^{\circ} & c=(90 \sqrt{2}=127.28)
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right] .\left[\begin{array}{c}
T
\end{array}\right]
\end{array}\right] \\
& \text { Ans3 }=\left[\begin{array}{c}
.1=[\operatorname{areaABC}=(75 \sqrt{3}+225=354.904)] \\
.2=[\operatorname{areaABC}=(450+450 \sqrt{3}=1229.423)]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right] \\
& \text { Ans } 4=\left[\begin{array}{l}
.1=\left[B=60^{\circ}, C=75^{\circ}, c=(21+21 \sqrt{3}=57.37), \operatorname{areaABC}=\left(\frac{441 \sqrt{3}}{2}+\frac{1323}{2}=1043.417\right)\right]\left[\begin{array}{c}
a \\
.2=\left[B=120^{\circ}, C=15^{\circ}, c=(21 \sqrt{3}-21=15.37), \operatorname{areaABC}=\left(\frac{1323}{2}-\frac{441 \sqrt{3}}{2}=279.583\right)\right]
\end{array}\right]\left[\begin{array}{c}
a \\
M \\
U \\
T \\
: \\
: D
\end{array}\right]
\end{array}\right.
\end{aligned}
$$



X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM5/1-6600307-00030XX TrigonometryExercise7 Answers for No. 14005

$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{c} 
\\
. l=\left[\begin{array}{cc}
A=30^{\circ} & a=(18 \sqrt{2}=25.46) \\
B=105^{\circ} & b=(18+18 \sqrt{3}=49.18) \\
C=45^{\circ} & c=36
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=75^{\circ} & a=(5 \sqrt{2} \sqrt{3}+15 \sqrt{2}=33.46) \\
B=60^{\circ} & b=30 \\
C=45^{\circ} & c=(10 \sqrt{2} \sqrt{3}=24.49)
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right] \\
& A n s 2=\left[\begin{array}{c}
.1=\left[\begin{array}{cc}
A=15^{\circ} & a=(15 \sqrt{2} \sqrt{3}-15 \sqrt{2}=15.53) \\
B=30^{\circ} & b=30 \\
C=135^{\circ} & c=(30 \sqrt{2}=42.43)
\end{array}\right], \quad,\left[\begin{array}{lc}
A=60^{\circ} & a=(33 \sqrt{2} \sqrt{3}=80.83) \\
B=75^{\circ} & b=(33+33 \sqrt{3}=90.16) \\
C=45^{\circ} & c=66
\end{array}\right] \\
.2=\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right. \\
& \text { Ans3 }=\left[\begin{array}{c}
.1=[\operatorname{areaABC}=(75 \sqrt{3}+225=354.904)] \\
.2=[\operatorname{areaABC}=(1944-648 \sqrt{3}=821.631)]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right] \\
& \text { Ans } 4=\left[\begin{array}{l}
.1=\left[B=60^{\circ}, C=75^{\circ}, c=(21+21 \sqrt{3}=57.37), \operatorname{areaABC}=\left(\frac{441 \sqrt{3}}{2}+\frac{1323}{2}=1043.417\right)\right]\left[\begin{array}{c}
a \\
.2=\left[B=120^{\circ}, C=15^{\circ}, c=(21 \sqrt{3}-21=15.37), \operatorname{areaABC}=\left(\frac{1323}{2}-\frac{441 \sqrt{3}}{2}=279.583\right)\right]
\end{array}\right]\left[\begin{array}{c}
a \\
M \\
U \\
T \\
:) \\
: D
\end{array}\right]
\end{array}\right.
\end{aligned}
$$



X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX $5 / 1-6600307-00031 \mathrm{Xx}$ TrigonometryExercise7 Answers for No. 14157

$$
\text { Ans } 4=\left[\begin{array}{l}
.1=\left[B=60^{\circ}, C=90^{\circ}, c=120, \text { areaABC }=(1800 \sqrt{3}=3117.691)\right] \\
.2=\left[B=120^{\circ}, C=30^{\circ}, c=60, \text { areaABC }=(900 \sqrt{3}=1558.846)\right]
\end{array}\right], \quad,\left[\begin{array}{c}
@ \\
M \\
U \\
T \\
:) \\
: D
\end{array}\right]
$$

[^9]\[

$$
\begin{aligned}
& A n s l=\left[\begin{array}{c}
. l=\left[\begin{array}{cc}
A=105^{\circ} & a=(33+33 \sqrt{3}=90.16) \\
B=45^{\circ} & b=66 \\
C=30^{\circ} & c=(33 \sqrt{2}=46.67)
\end{array}\right] \\
.2=\left[\begin{array}{cc}
A=75^{\circ} & a=(9 \sqrt{2} \sqrt{3}+27 \sqrt{2}=60.23) \\
B=45^{\circ} & b=(18 \sqrt{2} \sqrt{3}=44.09) \\
C=60^{\circ} & c=54
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right] \\
& \text { Ans } 2=\left[\begin{array}{c}
.1=\left[\begin{array}{cc}
A=105^{\circ} & a=(42 \sqrt{2}+42 \sqrt{2} \sqrt{3}=162.28) \\
B=30^{\circ} & b=84 \\
C=45^{\circ} & c=(84 \sqrt{2}=118.79)
\end{array}\right] \\
.2=\left[\begin{array}{lc}
A=45^{\circ} & a=66 \\
B=60^{\circ} & b=(33 \sqrt{2} \sqrt{3}=80.83) \\
C=75^{\circ} & c=(33+33 \sqrt{3}=90.16)
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]
\end{array}\right] \\
& \text { Ans3 }=\left[\begin{array}{c}
.1=[\operatorname{area} A B C=(162+162 \sqrt{3}=442.592)] \\
.2=[\operatorname{areaABC}=(2025+2025 \sqrt{3}=5532.403)]
\end{array}\right], \quad,\left[\begin{array}{c}
M \\
a \\
t \\
h
\end{array}\right]
\end{aligned}
$$
\]

##  [ $>$


[^0]:    X [Page = 0002] xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

[^1]:    X [Page = 0003] xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

[^2]:    X [Page = 0005] xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

[^3]:    X [Page $=0006]$ XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

[^4]:    x [Page = 0012] xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

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