$$
\begin{aligned}
& \left..1=\operatorname{Sin}\left(\frac{\pi}{18}\right) \operatorname{Cos}\left(\frac{\pi}{9}\right)+\operatorname{Cos}\left(\frac{\pi}{18}\right) \operatorname{Sin}\left(\frac{\pi}{9}\right) \quad .2=\operatorname{Cos}\left(48^{\circ}\right) \operatorname{Cos}\left(12^{\circ}\right)-\operatorname{Sin}\left(48^{\circ}\right) \operatorname{Sin}\left(12^{\circ}\right)\right] \\
& .3=1-2 \operatorname{Sin}\left(\frac{\pi}{12}\right)^{2} \\
& .4=\operatorname{Cos}\left(22.5^{\circ}\right)^{2}-\operatorname{Sin}\left(22.5^{\circ}\right)^{2} \\
& . \sigma=\frac{2 \operatorname{Tan}\left(22.5^{\circ}\right)}{1-\operatorname{Tan}\left(22.5^{\circ}\right)^{2}} \\
& .7=\frac{\operatorname{Tan}\left(12^{\circ}\right)+\operatorname{Tan}\left(33^{\circ}\right)}{1-\operatorname{Tan}\left(12^{\circ}\right) \operatorname{Tan}\left(33^{\circ}\right)} \\
& .8=2 \operatorname{Sin}\left(\frac{\pi}{8}\right) \operatorname{Cos}\left(\frac{\pi}{8}\right) \\
& 9=\frac{\operatorname{Tan}\left(\frac{7 \pi}{30}\right)-\operatorname{Tan}\left(\frac{\pi}{15}\right)}{1+\operatorname{Tan}\left(\frac{7 \pi}{30}\right) \operatorname{Tan}\left(\frac{\pi}{15}\right)} \\
& .10=2 \operatorname{Cos}\left(15^{\circ}\right)^{2}-1
\end{aligned}
$$

$$
\begin{aligned}
& \text { No } 5=\left[\text { Cond }=\left(\operatorname{Cos}\left(6^{\circ}\right)=0.995\right), \text { Question }=\operatorname{Cos}\left(3^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(42^{\circ}\right)=0.743\right), \text { Question }=\operatorname{Sin}\left(21^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { x [Page }=0001] \text { xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx }
\end{aligned}
$$

$$
\begin{aligned}
& N o l=\left[\begin{array}{cc}
.1=\operatorname{Cos}\left(\frac{5 \pi}{12}\right) & .2=\operatorname{Sin}\left(15^{\circ}\right) \\
.3=\operatorname{Tan}\left(\frac{7 \pi}{12}\right) & .4=\operatorname{Tan}\left(255^{\circ}\right) \\
.5=\operatorname{Cot}\left(-\frac{\pi}{12}\right) & .6=\operatorname{Cos}\left(-\frac{13 \pi}{12}\right) \\
.7=\operatorname{Csc}\left((-255)^{\circ}\right) & .8=\operatorname{Sin}\left(-\frac{23 \pi}{12}\right)
\end{array}\right], \operatorname{No2}=\left[\begin{array}{cc}
.1=\frac{\operatorname{Tan}\left(65^{\circ}\right)-\operatorname{Tan}\left(20^{\circ}\right)}{1+\operatorname{Tan}\left(65^{\circ}\right) \operatorname{Tan}\left(20^{\circ}\right)} & .2=\operatorname{Sin}\left(5^{\circ}\right) \operatorname{Cos}\left(25^{\circ}\right)+\operatorname{Cos}\left(5^{\circ}\right) \operatorname{Sin}\left(25^{\circ}\right) \\
.3=\frac{2 \operatorname{Tan}\left(15^{\circ}\right)}{1-\operatorname{Tan}\left(15^{\circ}\right)^{2}} & .4=2 \operatorname{Cos}\left(22.5^{\circ}\right)^{2}-1 \\
.5=2 \operatorname{Sin}\left(\frac{\pi}{12}\right) \operatorname{Cos}\left(\frac{\pi}{12}\right) & .6=\operatorname{Cos}\left(\frac{4 \pi}{9}\right) \operatorname{Cos}\left(\frac{\pi}{9}\right)+\operatorname{Sin}\left(\frac{4 \pi}{9}\right) \operatorname{Sin}\left(\frac{\pi}{9}\right) \\
.7=1-2 \operatorname{Sin}\left(\frac{\pi}{8}\right)^{2} & .8=\operatorname{Sin}\left(\frac{17 \pi}{30}\right) \operatorname{Cos}\left(\frac{\pi}{15}\right)-\operatorname{Cos}\left(\frac{17 \pi}{30}\right) \operatorname{Sin}\left(\frac{\pi}{15}\right) \\
.9=\operatorname{Cos}\left(15^{\circ}\right)^{2}-\operatorname{Sin}\left(15^{\circ}\right)^{2} & .10=\frac{\operatorname{Tan}\left(12^{\circ}\right)+\operatorname{Tan}\left(33^{\circ}\right)}{1-\operatorname{Tan}\left(12^{\circ}\right) \operatorname{Tan}\left(33^{\circ}\right)}
\end{array}\right],
\end{aligned}
$$

$$
\begin{aligned}
& \text { No } 5=\left[\text { Cond }=\left(\operatorname{Cos}\left(52^{\circ}\right)=0.616\right), \text { Question }=\operatorname{Sin}\left(26^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(22^{\circ}\right)=0.927\right), \text { Question }=\operatorname{Cos}\left(11^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right]
\end{aligned}
$$

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$$
\begin{aligned}
& {\left[\begin{array}{c}
\frac{:)}{:( } \\
{\left[\left[\begin{array}{l}
P \\
V \\
S \\
S
\end{array}\right]\right.}
\end{array}\right]} \\
& .3=\frac{2 \operatorname{Tan}\left(\frac{\pi}{8}\right)}{1-\operatorname{Tan}\left(\frac{\pi}{8}\right)^{2}} \\
& .2=2 \operatorname{Cos}\left(\frac{\pi}{8}\right)^{2}-1 \\
& .4=\operatorname{Cos}\left(\frac{\pi}{12}\right)^{2}-\operatorname{Sin}\left(\frac{\pi}{12}\right)^{2} \\
& N o 1=\left[\begin{array}{cc}
.1=\operatorname{Cos}\left(75^{\circ}\right) & .2=\operatorname{Sin}\left(\frac{7 \pi}{12}\right) \\
.3=\operatorname{Tan}\left(15^{\circ}\right) & .4=\operatorname{Sec}\left((-75)^{\circ}\right) \\
.5=\operatorname{Cos}\left(-\frac{17 \pi}{12}\right) & .6=\operatorname{Csc}\left(-\frac{7 \pi}{12}\right) \\
.7=\operatorname{Cot}\left(195^{\circ}\right) & .8=\operatorname{Sin}\left((-285)^{\circ}\right)
\end{array}\right] \text {,No2= } \\
& .1=\operatorname{Sin}\left(100^{\circ}\right) \operatorname{Cos}\left(10^{\circ}\right)-\operatorname{Cos}\left(100^{\circ}\right) \operatorname{Sin}\left(10^{\circ}\right) \\
& .5=\operatorname{Sin}\left(50^{\circ}\right) \operatorname{Cos}\left(10^{\circ}\right)+\operatorname{Cos}\left(50^{\circ}\right) \operatorname{Sin}\left(10^{\circ}\right) \\
& .7=\frac{\operatorname{Tan}\left(60^{\circ}\right)-\operatorname{Tan}\left(15^{\circ}\right)}{1+\operatorname{Tan}\left(60^{\circ}\right) \operatorname{Tan}\left(15^{\circ}\right)} \\
& .9=1-2 \operatorname{Sin}\left(22.5^{\circ}\right)^{2} \\
& .6=\operatorname{Cos}\left(\frac{13 \pi}{30}\right) \operatorname{Cos}\left(\frac{\pi}{15}\right)-\operatorname{Sin}\left(\frac{13 \pi}{30}\right) \operatorname{Sin}\left(\frac{\pi}{15}\right) \text {, } \\
& 8=\frac{\operatorname{Tan}\left(\frac{5 \pi}{36}\right)+\operatorname{Tan}\left(\frac{\pi}{36}\right)}{1-\operatorname{Tan}\left(\frac{5 \pi}{36}\right) \operatorname{Tan}\left(\frac{\pi}{36}\right)} \\
& .10=2 \operatorname{Sin}\left(15^{\circ}\right) \operatorname{Cos}\left(15^{\circ}\right) \\
& \left.N o 3=\left[\begin{array}{c}
{\left[A=0, B=\frac{\pi}{2}, C=\frac{3 \pi}{2}, \mathrm{D}=2 \pi\right.}
\end{array}\right] \begin{array}{c}
{\left[\operatorname{Cond} 1=\left(\operatorname{Sin}(\alpha)=\frac{1}{2}\right), \operatorname{Cond} 2=\left(\operatorname{Cos}(\beta)=\frac{5}{9}\right)\right.}
\end{array}\right], \\
& \left.\left[\begin{array}{c}
{\left[A=\pi, B=\frac{3 \pi}{2}, C=\frac{\pi}{2}, \mathrm{D}=\pi\right.}
\end{array}\right]\left[\begin{array}{c}
{\left[\operatorname{Condl}=\left(\operatorname{Cos}(\alpha)=\frac{-4}{7}\right), \operatorname{Cond} 2=\left(\operatorname{Sin}(\beta)=\frac{2}{5}\right)\right.}
\end{array}\right]\right] \\
& \text { No5 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(8^{\circ}\right)=0.990\right) \text {, Question }=\operatorname{Sin}\left(4^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(74^{\circ}\right)=0.276\right), \text { Question }=\operatorname{Cos}\left(37^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right]
\end{aligned}
$$
\]

$$
\begin{gathered}
\frac{:)}{:( } \\
{\left[\left[\begin{array}{l}
P \\
V \\
S \\
S
\end{array}\right]\right.}
\end{gathered}
$$

\&

[^1]\[

$$
\begin{aligned}
& \text { No5 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(8^{\circ}\right)=0.990\right), \text { Question }=\operatorname{Sin}\left(4^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(68^{\circ}\right)=0.375\right), \text { Question }=\operatorname{Cos}\left(34^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right]
\end{aligned}
$$
\]

$$
\begin{aligned}
& \text { No } 5=\left[\text { Cond }=\left(\operatorname{Cos}\left(72^{\circ}\right)=0.309\right), \text { Question }=\operatorname{Sin}\left(36^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(12^{\circ}\right)=0.978\right), \text { Question }=\operatorname{Cos}\left(6^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right]
\end{aligned}
$$

[^2]\[

$$
\begin{aligned}
& \begin{array}{c}
.1=\frac{\operatorname{Tan}\left(\frac{\pi}{9}\right)+\operatorname{Tan}\left(\frac{\pi}{18}\right)}{1-\operatorname{Tan}\left(\frac{\pi}{9}\right) \operatorname{Tan}\left(\frac{\pi}{18}\right)} \\
.3=2 \operatorname{Sin}\left(\frac{\pi}{8}\right) \operatorname{Cos}\left(\frac{\pi}{8}\right)
\end{array} \\
& .2=\operatorname{Sin}\left(20^{\circ}\right) \operatorname{Cos}\left(25^{\circ}\right)+\operatorname{Cos}\left(20^{\circ}\right) \operatorname{Sin}\left(25^{\circ}\right)
\end{aligned}
$$
\]

$$
\begin{aligned}
& \text { No5 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(70^{\circ}\right)=0.342\right) \text {, Question }=\operatorname{Cos}\left(35^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(22^{\circ}\right)=0.927\right), \text { Question }=\operatorname{Sin}\left(11^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { x [Page }=0006] \text { xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx }
\end{aligned}
$$

$\left[\begin{array}{c}\frac{\partial}{:( } \\ {\left[\begin{array}{c}P \\ V \\ S \\ S\end{array}\right]} \\ {\left[\begin{array}{l}{\left[\begin{array}{l}M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T\end{array}\right]}\end{array}\right]} \\ \frac{:)}{:( } \\ \frac{:)}{:( }\end{array}\right]$

$$
N o l=\left[\begin{array}{cc}
.1=\operatorname{Cos}\left(\frac{\pi}{12}\right) & .2=\operatorname{Sin}\left(105^{\circ}\right) \\
.3=\operatorname{Tan}\left(75^{\circ}\right) & .4=\operatorname{Sec}\left(-\frac{19 \pi}{12}\right) \\
.5=\operatorname{Tan}\left(345^{\circ}\right) & .6=\operatorname{Csc}\left(\frac{17 \pi}{12}\right) \\
.7=\operatorname{Cot}\left(195^{\circ}\right) & .8=\operatorname{Cos}\left(\frac{19 \pi}{12}\right)
\end{array}\right], \operatorname{No} 2=\left[\begin{array}{cc}
.1=\operatorname{Sin}\left(\frac{\pi}{15}\right) \operatorname{Cos}\left(\frac{13 \pi}{30}\right)+\operatorname{Cos}\left(\frac{\pi}{15}\right) \operatorname{Sin}\left(\frac{13 \pi}{30}\right) & .2=\operatorname{Cos}\left(\frac{\pi}{8}\right)^{2}-\operatorname{Sin}\left(\frac{\pi}{8}\right)^{2} \\
.3=\operatorname{Sin}\left(105^{\circ}\right) \operatorname{Cos}\left(15^{\circ}\right)-\operatorname{Cos}\left(105^{\circ}\right) \operatorname{Sin}\left(15^{\circ}\right) & .4=2 \operatorname{Cos}\left(15^{\circ}\right)^{2}-1 \\
.5=\operatorname{Cos}\left(65^{\circ}\right) \operatorname{Cos}\left(20^{\circ}\right)+\operatorname{Sin}\left(65^{\circ}\right) \operatorname{Sin}\left(20^{\circ}\right) & .6=\operatorname{Cos}\left(15^{\circ}\right) \operatorname{Cos}\left(30^{\circ}\right)-\operatorname{Sin}\left(15^{\circ}\right) \operatorname{Sin}\left(30^{\circ}\right) \\
.7=2 \operatorname{Sin}\left(22.5^{\circ}\right) \operatorname{Cos}\left(22.5^{\circ}\right) & \operatorname{Tan}\left(\frac{7 \pi}{30}\right)-\operatorname{Tan}\left(\frac{\pi}{15}\right) \\
.9=\frac{2 \operatorname{Tan}\left(15^{\circ}\right)}{1-\operatorname{Tan}\left(15^{\circ}\right)^{2}} & .8=\frac{10}{1+\operatorname{Tan}\left(\frac{7 \pi}{30}\right) \operatorname{Tan}\left(\frac{\pi}{15}\right)} \\
.2-2 \operatorname{Sin}\left(\frac{\pi}{12}\right)^{2}
\end{array},\right.
$$



$$
\begin{aligned}
& \text { No5 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(86^{\circ}\right)=0.070\right) \text {, Question }=\operatorname{Sin}\left(43^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(64^{\circ}\right)=0.438\right) \text {, Question }=\operatorname{Cos}\left(32^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { x [Page }=00071 \text { xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxyxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx }
\end{aligned}
$$

$$
\left[\begin{array}{c}
\frac{:}{\partial( } \\
{\left[\left[\begin{array}{c}
P \\
V \\
S \\
S
\end{array}\right]\right.}
\end{array}\right]
$$

$$
\begin{aligned}
& .1=\operatorname{Sin}\left(\frac{7 \pi}{36}\right) \operatorname{Cos}\left(\frac{\pi}{18}\right)+\operatorname{Cos}\left(\frac{7 \pi}{36}\right) \operatorname{Sin}\left(\frac{\pi}{18}\right) \quad .2=\frac{\operatorname{Tan}\left(\frac{\pi}{3}\right)-\operatorname{Tan}\left(\frac{\pi}{12}\right)}{1+\operatorname{Tan}\left(\frac{\pi}{3}\right) \operatorname{Tan}\left(\frac{\pi}{12}\right)}
\end{aligned}
$$

$$
\begin{aligned}
& \text { No5 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(56^{\circ}\right)=0.559\right), \text { Question }=\operatorname{Sin}\left(28^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(32^{\circ}\right)=0.848\right) \text {, Question }=\operatorname{Cos}\left(16^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right]
\end{aligned}
$$

$$
\begin{aligned}
& \text { No } 5=\left[\text { Cond }=\left(\operatorname{Cos}\left(48^{\circ}\right)=0.669\right), \text { Question }=\operatorname{Cos}\left(24^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(72^{\circ}\right)=0.309\right), \text { Question }=\operatorname{Sin}\left(36^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right]
\end{aligned}
$$

$$
\begin{aligned}
& I=\frac{\operatorname{Tan}\left(\frac{7 \pi}{30}\right)-\operatorname{Tan}\left(\frac{\pi}{15}\right)}{1+\operatorname{Tan}\left(\frac{7 \pi}{30}\right) \operatorname{Tan}\left(\frac{\pi}{15}\right)} \\
& .2=2 \operatorname{Sin}\left(15^{\circ}\right) \operatorname{Cos}\left(15^{\circ}\right)
\end{aligned}
$$

$$
\begin{aligned}
& \text { No5 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(20^{\circ}\right)=0.940\right), \text { Question }=\operatorname{Cos}\left(10^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(64^{\circ}\right)=0.438\right), \text { Question }=\operatorname{Sin}\left(32^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { x [Page = 0010] xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx }
\end{aligned}
$$

$$
\begin{gathered}
\frac{:)}{:( } \\
{\left[\left[\begin{array}{l}
P \\
V \\
S \\
S
\end{array}\right]\right.}
\end{gathered}
$$

$$
\left[\left[\begin{array}{c}
\& \\
{\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]}
\end{array}\right]\right.
$$

$$
\begin{array}{ll}
L[T] . \\
\hline
\end{array}
$$

$$
\begin{aligned}
& N o 1=\left[\begin{array}{cc}
.1=\operatorname{Sin}\left(\frac{\pi}{12}\right) & .2=\operatorname{Cos}\left(75^{\circ}\right) \\
.3=\operatorname{Tan}\left(105^{\circ}\right) & .4=\operatorname{Tan}\left(-\frac{17 \pi}{12}\right) \\
.5=\operatorname{Sin}\left((-105)^{\circ}\right) & .6=\operatorname{Csc}\left((-345)^{\circ}\right) \\
.7=\operatorname{Cot}\left(\frac{17 \pi}{12}\right) & .8=\operatorname{Cos}\left((-195)^{\circ}\right)
\end{array}\right], \cos =\left[\begin{array}{cc}
.3=1-2 \operatorname{Sin}\left(22.5^{\circ}\right)^{2} & .4=2 \operatorname{Cos}\left(\frac{\pi}{12}\right)^{2}-1 \\
.5=\frac{\operatorname{Tan}\left(35^{\circ}\right)+\operatorname{Tan}\left(25^{\circ}\right)}{1-\operatorname{Tan}\left(35^{\circ}\right) \operatorname{Tan}\left(25^{\circ}\right)} & .6=\frac{\operatorname{Tan}\left(\frac{\pi}{3}\right)-\operatorname{Tan}\left(\frac{\pi}{12}\right)^{2}}{1+\operatorname{Tan}\left(\frac{\pi}{3}\right) \operatorname{Tan}\left(\frac{\pi}{12}\right)} \\
.7=2 \operatorname{Sin}\left(15^{\circ}\right) \operatorname{Cos}\left(15^{\circ}\right) & .8=\frac{2 \operatorname{Tan}\left(22.5^{\circ}\right)}{1-\operatorname{Tan}\left(22.5^{\circ}\right)^{2}} \\
.9=\operatorname{Cin}\left(\frac{\pi}{9}\right) \operatorname{Cos}\left(\frac{7 \pi}{18}\right)+\operatorname{Cos}\left(\frac{\pi}{9}\right) \operatorname{Sin}\left(\frac{7 \pi}{18}\right) & .10=\operatorname{Cos}\left(\frac{\pi}{8}\right)^{2}-\operatorname{Sin}\left(\frac{\pi}{8}\right)^{2}
\end{array}\right.
\end{aligned}
$$

$$
\begin{aligned}
& \text { No } 5=\left[\text { Cond }=\left(\operatorname{Cos}\left(62^{\circ}\right)=0.469\right), \text { Question }=\operatorname{Sin}\left(31^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(26^{\circ}\right)=0.899\right), \text { Question }=\operatorname{Cos}\left(13^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right]
\end{aligned}
$$

$$
N o 1=\left[\begin{array}{cc}
.1=\operatorname{Cos}\left(\frac{7 \pi}{12}\right) & .2=\operatorname{Sin}\left(15^{\circ}\right) \\
.3=\operatorname{Tan}\left(\frac{5 \pi}{12}\right) & .4=\operatorname{Sin}\left(\frac{19 \pi}{12}\right) \\
.5=\operatorname{Tan}\left(195^{\circ}\right) & .6=\operatorname{Cot}\left(345^{\circ}\right) \\
.7=\operatorname{Csc}\left(-\frac{5 \pi}{12}\right) & .8=\operatorname{Cos}\left(165^{\circ}\right)
\end{array}\right], N o 2=
$$

$$
\begin{aligned}
& .1=1-2 \operatorname{Sin}\left(22.5^{\circ}\right)^{2} \\
& .3=\frac{2 \operatorname{Tan}\left(\frac{\pi}{12}\right)}{1-\operatorname{Tan}\left(\frac{\pi}{12}\right)^{2}} \\
& .5=2 \operatorname{Cos}\left(\frac{\pi}{12}\right)^{2}-1
\end{aligned}
$$

$$
.7=\operatorname{Cos}\left(15^{\circ}\right)^{2}-\operatorname{Sin}\left(15^{\circ}\right)^{2}
$$

$.9=\operatorname{Sin}\left(102^{\circ}\right) \operatorname{Cos}\left(12^{\circ}\right)-\operatorname{Cos}\left(102^{\circ}\right) \operatorname{Sin}\left(12^{\circ}\right)$

$$
\begin{gathered}
.2=\operatorname{Cos}\left(\frac{\pi}{12}\right) \operatorname{Cos}\left(\frac{\pi}{6}\right)-\operatorname{Sin}\left(\frac{\pi}{12}\right) \operatorname{Sin}\left(\frac{\pi}{6}\right) \\
.4=\frac{\operatorname{Tan}\left(\frac{2 \pi}{9}\right)+\operatorname{Tan}\left(\frac{\pi}{9}\right)}{1-\operatorname{Tan}\left(\frac{2 \pi}{9}\right) \operatorname{Tan}\left(\frac{\pi}{9}\right)} \\
.6=\operatorname{Sin}\left(20^{\circ}\right) \operatorname{Cos}\left(10^{\circ}\right)+\operatorname{Cos}\left(20^{\circ}\right) \operatorname{Sin}\left(10^{\circ}\right),
\end{gathered}
$$

$$
\begin{gathered}
.8=\frac{\operatorname{Tan}\left(\frac{4 \pi}{9}\right)-\operatorname{Tan}\left(\frac{\pi}{9}\right)}{1+\operatorname{Tan}\left(\frac{4 \pi}{9}\right) \operatorname{Tan}\left(\frac{\pi}{9}\right)} \\
.10=2 \operatorname{Sin}\left(\frac{\pi}{8}\right) \operatorname{Cos}\left(\frac{\pi}{8}\right)
\end{gathered}
$$

$$
\begin{aligned}
& \text { No1 }=\left[\begin{array}{cl}
.1=\operatorname{Sin}\left(15^{\circ}\right) & .2=\operatorname{Cos}\left(\frac{7 \pi}{12}\right) \\
.3=\operatorname{Tan}\left(75^{\circ}\right) & .4=\operatorname{Cot}\left(165^{\circ}\right) \\
.5=\operatorname{Tan}\left(\frac{13 \pi}{12}\right) & .6=\operatorname{Cos}\left(-\frac{5 \pi}{12}\right) \\
.7=\operatorname{Sec}\left(255^{\circ}\right) & .8=\operatorname{Csc}\left((-195)^{\circ}\right)
\end{array}\right] \text {, No } 2= \\
& . l=2 \operatorname{Cos}\left(\frac{\pi}{12}\right)^{2}-1 \\
& .2=\frac{\operatorname{Tan}\left(12^{\circ}\right)+\operatorname{Tan}\left(18^{\circ}\right)}{1-\operatorname{Tan}\left(12^{\circ}\right) \operatorname{Tan}\left(18^{\circ}\right)} \\
& .3=1-2 \operatorname{Sin}\left(\frac{\pi}{8}\right)^{2} \\
& .4=\operatorname{Cos}\left(20^{\circ}\right) \operatorname{Cos}\left(40^{\circ}\right)-\operatorname{Sin}\left(20^{\circ}\right) \operatorname{Sin}\left(40^{\circ}\right) \\
& .5=2 \operatorname{Sin}\left(22.5^{\circ}\right) \operatorname{Cos}\left(22.5^{\circ}\right) \\
& .7=\frac{2 \operatorname{Tan}\left(22.5^{\circ}\right)}{1-\operatorname{Tan}\left(22.5^{\circ}\right)^{2}} \\
& .6=\operatorname{Cos}\left(15^{\circ}\right)^{2}-\operatorname{Sin}\left(15^{\circ}\right)^{2} \\
& .8=\operatorname{Cos}\left(\frac{2 \pi}{5}\right) \operatorname{Cos}\left(\frac{\pi}{15}\right)+\operatorname{Sin}\left(\frac{2 \pi}{5}\right) \operatorname{Sin}\left(\frac{\pi}{15}\right) \\
& \left..9=\operatorname{Sin}\left(\frac{7 \pi}{30}\right) \operatorname{Cos}\left(\frac{\pi}{15}\right)-\operatorname{Cos}\left(\frac{7 \pi}{30}\right) \operatorname{Sin}\left(\frac{\pi}{15}\right) \quad .10=\operatorname{Sin}\left(\frac{\pi}{9}\right) \operatorname{Cos}\left(\frac{5 \pi}{36}\right)+\operatorname{Cos}\left(\frac{\pi}{9}\right) \operatorname{Sin}\left(\frac{5 \pi}{36}\right)\right]
\end{aligned}
$$

$$
\begin{aligned}
& \text { No5 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(68^{\circ}\right)=0.375\right), \text { Question }=\operatorname{Cos}\left(34^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(22^{\circ}\right)=0.927\right), \text { Question }=\operatorname{Sin}\left(11^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right]
\end{aligned}
$$

$$
\begin{aligned}
& {\left[\begin{array}{cc}
.1=\operatorname{Cos}\left(15^{\circ}\right)^{2}-\operatorname{Sin}\left(15^{\circ}\right)^{2} & .2=\operatorname{Sin}\left(\frac{\pi}{18}\right) \operatorname{Cos}\left(\frac{5 \pi}{18}\right)+\operatorname{Cos}\left(\frac{\pi}{18}\right) \operatorname{Sin}\left(\frac{5 \pi}{18}\right) \\
.3=\operatorname{Sin}\left(\frac{17 \pi}{30}\right) \operatorname{Cos}\left(\frac{\pi}{15}\right)-\operatorname{Cos}\left(\frac{17 \pi}{30}\right) \operatorname{Sin}\left(\frac{\pi}{15}\right) & .4=1-2 \operatorname{Sin}\left(\frac{\pi}{12}\right)^{2} \\
.5=\frac{2 \operatorname{Tan}\left(\frac{\pi}{12}\right)^{2}}{1-\operatorname{Tan}\left(\frac{\pi}{12}\right)^{2}} \\
.7=\operatorname{Cos}\left(70^{\circ}\right) \operatorname{Cos}\left(10^{\circ}\right)+\operatorname{Sin}\left(70^{\circ}\right) \operatorname{Sin}\left(10^{\circ}\right) & .6=\operatorname{Cos}\left(15^{\circ}\right) \operatorname{Cos}\left(30^{\circ}\right)-\operatorname{Sin}\left(15^{\circ}\right) \operatorname{Sin}\left(30^{\circ}\right) \\
.9=2 \operatorname{Sin}\left(\frac{\pi}{8}\right) \operatorname{Cos}\left(\frac{\pi}{8}\right) & .8=2 \operatorname{Cos}\left(22.5^{\circ}\right)^{2}-1 \\
.10=\frac{\operatorname{Tan}\left(\frac{5 \pi}{18}\right)-\operatorname{Tan}\left(\frac{\pi}{9}\right)}{1+\operatorname{Tan}\left(\frac{5 \pi}{18}\right) \operatorname{Tan}\left(\frac{\pi}{9}\right)}
\end{array}\right]} \\
& \text { Nol }=\left[\begin{array}{cc}
.1=\operatorname{Cos}\left(\frac{7 \pi}{12}\right) & .2=\operatorname{Sin}\left(75^{\circ}\right) \\
.3=\operatorname{Tan}\left(15^{\circ}\right) & .4=\operatorname{Cot}\left(195^{\circ}\right) \\
.5=\operatorname{Tan}\left(-\frac{19 \pi}{12}\right) & .6=\operatorname{Csc}\left(\frac{23 \pi}{12}\right) \\
.7=\operatorname{Cos}\left(165^{\circ}\right) & .8=\operatorname{Sec}\left(255^{\circ}\right)
\end{array}\right], N o 2=
\end{aligned}
$$

$$
\begin{aligned}
& \text { No } 5=\left[\text { Cond }=\left(\operatorname{Cos}\left(44^{\circ}\right)=0.719\right), \text { Question }=\operatorname{Sin}\left(22^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(24^{\circ}\right)=0.914\right), \text { Question }=\operatorname{Cos}\left(12^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { x [Page = 0014] xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx }
\end{aligned}
$$

$$
\begin{aligned}
& \text { No } 5=\left[\text { Cond }=\left(\operatorname{Cos}\left(76^{\circ}\right)=0.242\right) \text {, Question }=\operatorname{Sin}\left(38^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(52^{\circ}\right)=0.616\right), \text { Question }=\operatorname{Cos}\left(26^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right]
\end{aligned}
$$

$$
I=2 \operatorname{Cos}\left(\frac{\pi}{12}\right)^{2}-1
$$

$$
N o 1=\left[\begin{array}{cc}
.1=\operatorname{Cos}\left(\frac{\pi}{12}\right) & .2=\operatorname{Sin}\left(105^{\circ}\right) \\
.3=\operatorname{Tan}\left(\frac{5 \pi}{12}\right) & .4=\operatorname{Sec}\left(-\frac{5 \pi}{12}\right) \\
.5=\operatorname{Sin}\left((-15)^{\circ}\right) & .6=\operatorname{Csc}\left((-285)^{\circ}\right) \\
.7=\operatorname{Cot}\left(-\frac{13 \pi}{12}\right) & .8=\operatorname{Tan}\left(195^{\circ}\right)
\end{array}\right], \operatorname{No} 2=\left[\begin{array}{cc}
.3=\operatorname{Sin}\left(42^{\circ}\right) \operatorname{Cos}\left(12^{\circ}\right)-\operatorname{Cos}\left(42^{\circ}\right) \operatorname{Sin}\left(12^{\circ}\right) & .4=\frac{2 \operatorname{Tan}\left(22.5^{\circ}\right)}{1-\operatorname{Tan}\left(22.5^{\circ}\right)^{2}} \\
.5=\operatorname{Cos}\left(100^{\circ}\right) \operatorname{Cos}\left(10^{\circ}\right)+\operatorname{Sin}\left(100^{\circ}\right) \operatorname{Sin}\left(10^{\circ}\right) & .6=\operatorname{Cos}\left(\frac{\pi}{8}\right)^{2}-\operatorname{Sin}\left(\frac{\pi}{8}\right)^{2} \\
.7=\operatorname{Cos}\left(\frac{\pi}{9}\right) \operatorname{Cos}\left(\frac{2 \pi}{9}\right)-\operatorname{Sin}\left(\frac{\pi}{9}\right) \operatorname{Sin}\left(\frac{2 \pi}{9}\right) & .8=2 \operatorname{Sin}\left(22.5^{\circ}\right) \operatorname{Cos}\left(22.5^{\circ}\right) \\
.9=\frac{\operatorname{Tan}\left(\frac{7 \pi}{18}\right)-\operatorname{Tan}\left(\frac{\pi}{18}\right)}{1+\operatorname{Tan}\left(\frac{7 \pi}{18}\right) \operatorname{Tan}\left(\frac{\pi}{18}\right)} & .10=\frac{\operatorname{Tan}\left(\frac{11 \pi}{60}\right)+\operatorname{Tan}\left(\frac{\pi}{15}\right)}{1-\operatorname{Tan}\left(\frac{11 \pi}{60}\right) \operatorname{Tan}\left(\frac{\pi}{15}\right)}
\end{array}\right],
$$



[^3]\[

$$
\begin{aligned}
& \text { No5 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(12^{\circ}\right)=0.978\right), \text { Question }=\operatorname{Cos}\left(6^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(48^{\circ}\right)=0.669\right), \text { Question }=\operatorname{Sin}\left(24^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right]
\end{aligned}
$$
\]

$$
\begin{aligned}
& \text { No5 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(10^{\circ}\right)=0.985\right), \text { Question }=\operatorname{Cos}\left(5^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(80^{\circ}\right)=0.174\right), \text { Question }=\operatorname{Sin}\left(40^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { x [Page }=0017] \text { xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxyxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx }
\end{aligned}
$$

$\left[\begin{array}{c}\frac{:}{:( } \\ {\left[\left[\begin{array}{l}P \\ V \\ S \\ S\end{array}\right]\right.} \\ {\left[\begin{array}{l}{\left[\begin{array}{l}M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T\end{array}\right]}\end{array}\right]} \\ \frac{:)}{:( } \\ \frac{:)}{:( }\end{array}\right]$

$$
\begin{aligned}
& .1=2 \operatorname{Sin}\left(22.5^{\circ}\right) \operatorname{Cos}\left(22.5^{\circ}\right) \\
& .3=\operatorname{Sin}\left(15^{\circ}\right) \operatorname{Cos}\left(75^{\circ}\right)+\operatorname{Cos}\left(15^{\circ}\right) \operatorname{Sin}\left(75^{\circ}\right) \quad .4=\operatorname{Cos}\left(\frac{\pi}{8}\right)^{2}-\operatorname{Sin}\left(\frac{\pi}{8}\right)^{2} \\
& \begin{array}{rlrl}
.5= & \frac{\operatorname{Tan}\left(42^{\circ}\right)-\operatorname{Tan}\left(12^{\circ}\right)}{1+\operatorname{Tan}\left(42^{\circ}\right) \operatorname{Tan}\left(12^{\circ}\right)} & .6 & =\operatorname{Cos}\left(\frac{4 \pi}{9}\right) \operatorname{Cos}\left(\frac{\pi}{9}\right)+\operatorname{Sin}\left(\frac{4 \pi}{9}\right) \operatorname{Sin}\left(\frac{\pi}{9}\right) \\
.7=2 \operatorname{Cos}\left(15^{\circ}\right)^{2}-1 & .8 & =\operatorname{Sin}\left(\frac{11 \pi}{18}\right) \operatorname{Cos}\left(\frac{\pi}{9}\right)-\operatorname{Cos}\left(\frac{11 \pi}{18}\right) \operatorname{Sin}\left(\frac{\pi}{9}\right)
\end{array} \\
& 9=\frac{2 \operatorname{Tan}\left(\frac{\pi}{12}\right)}{1-\operatorname{Tan}\left(\frac{\pi}{12}\right)^{2}} \\
& .10=1-2 \operatorname{Sin}\left(\frac{\pi}{12}\right)^{2}
\end{aligned}
$$

$$
\begin{aligned}
& \text { No } 5=\left[\text { Cond }=\left(\operatorname{Cos}\left(16^{\circ}\right)=0.961\right), \text { Question }=\operatorname{Sin}\left(8^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(62^{\circ}\right)=0.469\right), \text { Question }=\operatorname{Cos}\left(31^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { x [Page }=0018] \text { xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx }
\end{aligned}
$$

$\left[\begin{array}{c}\frac{:}{:( } \\ {\left[\begin{array}{l}P \\ V \\ S \\ S\end{array}\right]}\end{array}\right] \quad\left[\begin{array}{l}{\left[\begin{array}{l}M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T\end{array}\right]} \\ \frac{:)}{:( } \\ \frac{:)}{:( }\end{array}\right]$

$$
\left[\begin{array}{c}
\frac{:)}{:( } \\
{\left[\left[\begin{array}{l}
P \\
V \\
S \\
S
\end{array}\right]\right.}
\end{array}\right]
$$

$$
\left[\begin{array}{c}
\& \\
{\left[\left[\begin{array}{c}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]\right.}
\end{array}\right]
$$

$$
\frac{:)}{:( }
$$

$$
\begin{aligned}
& .( \\
& \frac{:)}{.( }
\end{aligned}
$$

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$$
\begin{aligned}
& \text { No } 5=\left[\text { Cond }=\left(\operatorname{Cos}\left(84^{\circ}\right)=0.105\right), \text { Question }=\operatorname{Sin}\left(42^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(36^{\circ}\right)=0.809\right), \text { Question }=\operatorname{Cos}\left(18^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right]
\end{aligned}
$$
\]

$$
\begin{aligned}
& \text { No } 5=\left[\text { Cond }=\left(\operatorname{Cos}\left(30^{\circ}\right)=0.866\right), \text { Question }=\operatorname{Cos}\left(15^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(52^{\circ}\right)=0.616\right), \text { Question }=\operatorname{Sin}\left(26^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right]
\end{aligned}
$$

$$
\text { No5 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(80^{\circ}\right)=0.174\right), \text { Question }=\operatorname{Cos}\left(40^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right]
$$

$$
\text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(48^{\circ}\right)=0.669\right), \text { Question }=\operatorname{Sin}\left(24^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right]
$$

x [Page $=0021]$ xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

$$
\begin{aligned}
& .1=\frac{2 \operatorname{Tan}\left(\frac{\pi}{12}\right)}{\left(2=\operatorname{Cos}\left(\frac{7 \pi}{30}\right) \operatorname{Cos}\left(\frac{\pi}{15}\right)+\operatorname{Sin}\left(\frac{7 \pi}{30}\right) \operatorname{Sin}\left(\frac{\pi}{15}\right)\right]} \\
& N o l=\left[\begin{array}{cc}
.1=\operatorname{Cos}\left(\frac{\pi}{12}\right) & .2=\operatorname{Sin}\left(75^{\circ}\right) \\
.3=\operatorname{Tan}\left(105^{\circ}\right) & .4=\operatorname{Cot}\left(-\frac{23 \pi}{12}\right) \\
.5=\operatorname{Tan}\left((-255)^{\circ}\right) & .6=\operatorname{Sin}\left((-75)^{\circ}\right) \\
.7=\operatorname{Sec}\left(\frac{23 \pi}{12}\right) & .8=\operatorname{Csc}\left((-15)^{\circ}\right)
\end{array}\right], \ln =\left[\begin{array}{cc}
1-\operatorname{Tan}\left(\frac{\pi}{12}\right)^{2} & .2=\operatorname{Cos}\left(\frac{\pi}{30}\right) \operatorname{Cos}\left(\frac{\pi}{15}\right)+\operatorname{Sin}(\overline{30}) \operatorname{Sin}\left(\frac{15}{15}\right) \\
.5=\operatorname{Cos}\left(\frac{7 \pi}{36}\right) \operatorname{Cos}\left(\frac{\pi}{18}\right)-\operatorname{Sin}\left(\frac{7 \pi}{36}\right) \operatorname{Sin}\left(\frac{\pi}{18}\right) & .6=\operatorname{Sin}\left(12^{\circ}\right) \operatorname{Cos}\left(48^{\circ}\right)+\operatorname{Cos}\left(12^{\circ}\right) \operatorname{Sin}\left(48^{\circ}\right) \\
.7=2 \operatorname{Sin}\left(\frac{\pi}{12}\right) \operatorname{Cos}\left(\frac{\pi}{12}\right) & .8=\frac{\operatorname{Tan}\left(12^{\circ}\right)+\operatorname{Tan}\left(18^{\circ}\right)}{1-\operatorname{Tan}\left(12^{\circ}\right) \operatorname{Tan}\left(18^{\circ}\right)} \\
.9=2 \operatorname{Cos}\left(\frac{\pi}{8}\right)^{2}-1 & .10=\operatorname{Sin}\left(\frac{\pi}{3}\right) \operatorname{Cos}\left(\frac{\pi}{12}\right)-\operatorname{Cos}\left(\frac{\pi}{3}\right) \operatorname{Sin}\left(\frac{\pi}{12}\right)
\end{array}\right.
\end{aligned}
$$

$$
\begin{aligned}
& .1=\operatorname{Cos}\left(\frac{\pi}{9}\right) \operatorname{Cos}\left(\frac{2 \pi}{9}\right)-\operatorname{Sin}\left(\frac{\pi}{9}\right) \operatorname{Sin}\left(\frac{2 \pi}{9}\right)
\end{aligned}
$$

$$
\begin{aligned}
& \text { No } 5=\left[\text { Cond }=\left(\operatorname{Cos}\left(26^{\circ}\right)=0.899\right), \text { Question }=\operatorname{Sin}\left(13^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(64^{\circ}\right)=0.438\right), \text { Question }=\operatorname{Cos}\left(32^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right]
\end{aligned}
$$



$$
\begin{aligned}
& \text { No } 5=\left[\text { Cond }=\left(\operatorname{Cos}\left(48^{\circ}\right)=0.669\right), \text { Question }=\operatorname{Sin}\left(24^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(6^{\circ}\right)=0.995\right) \text {, Question }=\operatorname{Cos}\left(3^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right]
\end{aligned}
$$

$$
\begin{aligned}
& .2=\frac{\operatorname{Tan}\left(\frac{7 \pi}{36}\right)+\operatorname{Tan}\left(\frac{\pi}{18}\right)}{1-\operatorname{Tan}\left(\frac{7 \pi}{36}\right) \operatorname{Tan}\left(\frac{\pi}{18}\right)} \\
& .4=\operatorname{Sin}\left(105^{\circ}\right) \operatorname{Cos}\left(15^{\circ}\right)-\operatorname{Cos}\left(105^{\circ}\right) \operatorname{Sin}\left(15^{\circ}\right) \\
& \text { Nol }=\left[\begin{array}{cc}
.1=\operatorname{Cos}\left(\frac{\pi}{12}\right) & .2=\operatorname{Sin}\left(75^{\circ}\right) \\
.3=\operatorname{Tan}\left(105^{\circ}\right) & .4=\operatorname{Tan}\left(\frac{19 \pi}{12}\right) \\
.5=\operatorname{Sec}\left(195^{\circ}\right) & .6=\operatorname{Cot}\left((-15)^{\circ}\right) \\
.7=\operatorname{Sin}\left(-\frac{23 \pi}{12}\right) & .8=\operatorname{Cos}\left((-255)^{\circ}\right)
\end{array}\right], \text { No } 2= \\
& . l=\operatorname{Cos}\left(15^{\circ}\right)^{2}-\operatorname{Sin}\left(15^{\circ}\right)^{2} \\
& .3=2 \operatorname{Sin}\left(\frac{\pi}{12}\right) \operatorname{Cos}\left(\frac{\pi}{12}\right) \\
& .5=\frac{\operatorname{Tan}\left(\frac{7 \pi}{30}\right)-\operatorname{Tan}\left(\frac{\pi}{15}\right)}{1+\operatorname{Tan}\left(\frac{7 \pi}{30}\right) \operatorname{Tan}\left(\frac{\pi}{15}\right)} \\
& .7=\frac{2 \operatorname{Tan}\left(22.5^{\circ}\right)}{1-\operatorname{Tan}\left(22.5^{\circ}\right)^{2}} \\
& .6=\operatorname{Cos}\left(70^{\circ}\right) \operatorname{Cos}\left(10^{\circ}\right)+\operatorname{Sin}\left(70^{\circ}\right) \operatorname{Sin}\left(10^{\circ}\right) \\
& .8=2 \operatorname{Cos}\left(\frac{\pi}{8}\right)^{2}-1 \\
& .9=\operatorname{Cos}\left(\frac{\pi}{12}\right) \operatorname{Cos}\left(\frac{5 \pi}{12}\right)-\operatorname{Sin}\left(\frac{\pi}{12}\right) \operatorname{Sin}\left(\frac{5 \pi}{12}\right) \quad .10=1-2 \operatorname{Sin}\left(22.5^{\circ}\right)^{2}
\end{aligned}
$$

$$
\begin{aligned}
& \text { No } 5=\left[\text { Cond }=\left(\operatorname{Cos}\left(66^{\circ}\right)=0.407\right), \text { Question }=\operatorname{Sin}\left(33^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(6^{\circ}\right)=0.995\right), \text { Question }=\operatorname{Cos}\left(3^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right]
\end{aligned}
$$

$$
\begin{aligned}
& \text { No1 }=\left[\begin{array}{cc}
.1=\operatorname{Sin}\left(\frac{7 \pi}{12}\right) & .2=\operatorname{Cos}\left(75^{\circ}\right) \\
.3=\operatorname{Tan}\left(\frac{\pi}{12}\right) & .4=\operatorname{Cot}\left(-\frac{7 \pi}{12}\right) \\
.5=\operatorname{Sin}\left(285^{\circ}\right) & .6=\operatorname{Cos}\left(\frac{13 \pi}{12}\right) \\
.7=\operatorname{Tan}\left(165^{\circ}\right) & .8=\operatorname{Sec}\left((-75)^{\circ}\right)
\end{array}\right], \operatorname{No2=[\begin{array} {cc}
{.3=\frac {\operatorname {Tan}(50^{\circ })-\operatorname {Tan}(20^{\circ })}{1+\operatorname {Tan}(50^{\circ })\operatorname {Tan}(20^{\circ })}}&{.4=\operatorname {Sin}(85^{\circ })\operatorname {Cos}(25^{\circ })-\operatorname {Cos}(85^{\circ })\operatorname {Sin}(25^{\circ })}\\
{.5=2\operatorname {Sin}(\frac {\pi }{8})\operatorname {Cos}(\frac {\pi }{8})}&{.6=2\operatorname {Cos}(\frac {\pi }{12})^{2}-1}\\
{.7=\operatorname {Sin}(15^{\circ })\operatorname {Cos}(30^{\circ })+\operatorname {Cos}(15^{\circ })\operatorname {Sin}(30^{\circ })}&{.8=\frac {\operatorname {Tan}(\frac {2\pi }{9})+\operatorname {Tan}(\frac {\pi }{9})}{1-\operatorname {Tan}(\frac {2\pi }{9})\operatorname {Tan}(\frac {\pi }{9})}}\\
{.9=1-2\operatorname {Sin}(22.5^{\circ })^{2}}&{.10=\operatorname {Cos}(15^{\circ })^{2}-\operatorname {Sin}(15^{\circ })^{2}}
\end{array} ],~} \\
& \left.\begin{array}{c}
{\left[\begin{array}{c}
\frac{:}{:( } \\
{\left[\begin{array}{l}
P \\
V \\
S \\
S
\end{array}\right]}
\end{array}\right]} \\
{\left[\begin{array}{c}
{\left[\begin{array}{l}
M \\
a \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]}
\end{array}\right]} \\
\frac{:)}{:( } \\
\frac{:)}{:( }
\end{array}\right]
\end{aligned}
$$

$$
\begin{aligned}
& \text { No } 5=\left[\text { Cond }=\left(\operatorname{Cos}\left(40^{\circ}\right)=0.766\right), \text { Question }=\operatorname{Sin}\left(20^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(14^{\circ}\right)=0.970\right), \text { Question }=\operatorname{Cos}\left(7^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right]
\end{aligned}
$$

$$
\begin{aligned}
& N o 3=\left[\begin{array}{c}
{\left[A=0, B=\frac{\pi}{2}, C=\frac{\pi}{2}, \mathrm{D}=\pi\right.}
\end{array}\right]\left[\begin{array}{c}
{\left[\begin{array}{c}
{\left[A=\pi, B=\frac{3 \pi}{2}, C=\frac{3 \pi}{2}, \mathrm{D}=2 \pi\right.}
\end{array}\right]} \\
{\left[\operatorname{Condl}=\left(\operatorname{Sin}(\alpha)=\frac{5}{9}\right), \operatorname{Cond} 2=\left(\operatorname{Cos}(\beta)=\frac{-1}{3}\right)\right.}
\end{array}\right], \quad, \operatorname{No4}=\left[\begin{array}{c}
{\left[\begin{array}{c}
{\left[\begin{array}{l}
\text { Cond } 1=\left(\operatorname{Sin}(\alpha)=\frac{-3}{5}\right), \operatorname{Cond} 2=\left(\operatorname{Cos}(\beta)=\frac{3}{7}\right)
\end{array}\right]} \\
{\left[\left[\begin{array}{cc}
.1=\operatorname{Cos}(\alpha) & .2=\operatorname{Sin}(\beta) \\
.3=\operatorname{Tan}(\beta) & .4=\operatorname{Sin}(\alpha-\beta) \\
.5=\operatorname{Cos}(\alpha+\beta) & .6=\operatorname{Tan}(\beta-\alpha) \\
.7=\operatorname{Cos}(2 \alpha) & .8=\operatorname{Tan}(2 \beta)
\end{array}\right]\right.}
\end{array}\right]} \\
{\left[\begin{array}{cc}
.1=\operatorname{Cos}(\alpha) & .2=\operatorname{Sin}(\beta) \\
.3=\operatorname{Tan}(\beta) & .4=\operatorname{Sin}(\alpha+\beta) \\
.5=\operatorname{Cos}(\beta-\alpha) & .6=\operatorname{Tan}(\alpha-\beta) \\
.7=\operatorname{Sin}(2 \alpha) & .8=\operatorname{Tan}(2 \beta)
\end{array}\right]}
\end{array}\right] \\
& \text { No5 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(22^{\circ}\right)=0.927\right), \text { Question }=\operatorname{Cos}\left(11^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(68^{\circ}\right)=0.375\right), \text { Question }=\operatorname{Sin}\left(34^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { x [Page = 0026] xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx }
\end{aligned}
$$

$$
\begin{aligned}
& N o l=\left[\begin{array}{cc}
.1=\operatorname{Cos}\left(105^{\circ}\right) & .2=\operatorname{Sin}\left(\frac{5 \pi}{12}\right) \\
.3=\operatorname{Tan}\left(15^{\circ}\right) & .4=\operatorname{Cot}\left((-285)^{\circ}\right) \\
.5=\operatorname{Cos}\left(-\frac{7 \pi}{12}\right) & .6=\operatorname{Csc}\left((-195)^{\circ}\right) \\
.7=\operatorname{Sin}\left(\frac{17 \pi}{12}\right) & .8=\operatorname{Tan}\left(\frac{23 \pi}{12}\right)
\end{array}\right], N o 2=\left[\begin{array}{c}
. \\
.3=\frac{\operatorname{Tan}\left(\frac{4 \pi}{9}\right)-\operatorname{Tan}\left(\frac{\pi}{9}\right)}{1+\operatorname{Tan}\left(\frac{4 \pi}{9}\right) \operatorname{Tan}\left(\frac{\pi}{9}\right)} \\
.7=\operatorname{Cos}\left(12^{\circ}\right) \operatorname{Cos}\left(33^{\circ}\right)-\operatorname{Sin}\left(12^{\circ}\right) \operatorname{Sin}\left(33^{\circ}\right) \\
.9=\operatorname{Cos}\left(65^{\circ}\right) \operatorname{Cos}\left(20^{\circ}\right)+\operatorname{Sin}\left(65^{\circ}\right) \operatorname{Sin}\left(20^{\circ}\right)
\end{array} .10=\operatorname{San}\left(15^{\circ}\right)\right.
\end{aligned}
$$

$$
\begin{aligned}
& \text { No5 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(6^{\circ}\right)=0.995\right), \text { Question }=\operatorname{Cos}\left(3^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(38^{\circ}\right)=0.788\right), \text { Question }=\operatorname{Sin}\left(19^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right]
\end{aligned}
$$

$$
\begin{aligned}
& {\left[\begin{array}{cr}
.1=\operatorname{Cos}\left(\frac{11 \pi}{60}\right) \operatorname{Cos}\left(\frac{\pi}{15}\right)-\operatorname{Sin}\left(\frac{11 \pi}{60}\right) \operatorname{Sin}\left(\frac{\pi}{15}\right) & .2=\operatorname{Cos}\left(22.5^{\circ}\right)^{2}-\operatorname{Sin}\left(22.5^{\circ}\right)^{2} \\
.3=1-2 \operatorname{Sin}\left(\frac{\pi}{8}\right)^{2} & .4=\frac{2 \operatorname{Tan}\left(22.5^{\circ}\right)}{1-\operatorname{Tan}\left(22.5^{\circ}\right)^{2}} \\
.5=2 \operatorname{Cos}\left(15^{\circ}\right)^{2}-1 & .6=2 \operatorname{Sin}\left(\frac{\pi}{12}\right) \operatorname{Cos}\left(\frac{\pi}{12}\right)
\end{array}\right.} \\
& .7=\frac{\operatorname{Tan}\left(\frac{5 \pi}{36}\right)+\operatorname{Tan}\left(\frac{7 \pi}{36}\right)}{1-\operatorname{Tan}\left(\frac{5 \pi}{36}\right) \operatorname{Tan}\left(\frac{7 \pi}{36}\right)} \\
& \left..9=\frac{\operatorname{Tan}\left(35^{\circ}\right)-\operatorname{Tan}\left(5^{\circ}\right)}{1+\operatorname{Tan}\left(35^{\circ}\right) \operatorname{Tan}\left(5^{\circ}\right)} \quad .10=\operatorname{Sin}\left(110^{\circ}\right) \operatorname{Cos}\left(20^{\circ}\right)-\operatorname{Cos}\left(110^{\circ}\right) \operatorname{Sin}\left(20^{\circ}\right)\right] \\
& \text { Nol }=\left[\begin{array}{cc}
.1=\operatorname{Cos}\left(\frac{\pi}{12}\right) & .2=\operatorname{Sin}\left(105^{\circ}\right) \\
.3=\operatorname{Tan}\left(\frac{5 \pi}{12}\right) & .4=\operatorname{Sec}\left(-\frac{13 \pi}{12}\right) \\
.5=\operatorname{Csc}\left((-165)^{\circ}\right) & .6=\operatorname{Sin}\left(-\frac{23 \pi}{12}\right) \\
.7=\operatorname{Cot}\left(345^{\circ}\right) & .8=\operatorname{Cos}\left(\frac{11 \pi}{12}\right)
\end{array}\right], \text { No2 }= \\
& \begin{array}{c}
.8=\operatorname{Sin}\left(12^{\circ}\right) \operatorname{Cos}\left(78^{\circ}\right)+\operatorname{Cos}\left(12^{\circ}\right) \operatorname{Sin}\left(78^{\circ}\right) \\
10=\operatorname{Sin}\left(110^{\circ}\right) \operatorname{Cos}\left(20^{\circ}\right)-\operatorname{Cos}\left(110^{\circ}\right) \operatorname{Sin}\left(20^{\circ}\right)
\end{array}
\end{aligned}
$$

$$
\begin{aligned}
& \text { No } 5=\left[\text { Cond }=\left(\operatorname{Cos}\left(74^{\circ}\right)=0.276\right), \text { Question }=\operatorname{Cos}\left(37^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(8^{\circ}\right)=0.990\right) \text {, Question }=\operatorname{Sin}\left(4^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { x [Page = 0028] xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx }
\end{aligned}
$$

$$
\begin{aligned}
& \text { No } 5=\left[\text { Cond }=\left(\operatorname{Cos}\left(64^{\circ}\right)=0.438\right) \text {, Question }=\operatorname{Cos}\left(32^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(26^{\circ}\right)=0.899\right), \text { Question }=\operatorname{Sin}\left(13^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right]
\end{aligned}
$$

$$
\begin{aligned}
& \text { No5 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(40^{\circ}\right)=0.766\right), \text { Question }=\operatorname{Cos}\left(20^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(72^{\circ}\right)=0.309\right), \text { Question }=\operatorname{Sin}\left(36^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { x [Page }=0030] \text { xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx }
\end{aligned}
$$

$$
\begin{aligned}
& \text { No5 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(84^{\circ}\right)=0.105\right), \text { Question }=\operatorname{Cos}\left(42^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right] \\
& \text { No6 }=\left[\text { Cond }=\left(\operatorname{Cos}\left(20^{\circ}\right)=0.940\right), \text { Question }=\operatorname{Sin}\left(10^{\circ}\right)\right], \quad,\left[\begin{array}{c}
M \\
U \\
T
\end{array}\right]
\end{aligned}
$$

$\left[\begin{array}{c}\frac{:)}{:( } \\ {\left[\begin{array}{l}P \\ V \\ S \\ S\end{array}\right]} \\ \vdots \\ {\left[\begin{array}{l}M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T\end{array}\right]} \\ \frac{:)}{:( } \\ \frac{:)}{:( }\end{array}\right]$


[^0]:    x [Page $=0001$ xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

[^1]:    

[^2]:    x [Page = 0005] xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

[^3]:    

[^4]:    

