TrigonometryExercise7 Answers for No.9012

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 30^{o} & a = 72 \\ B = 135^{o} & b = (72\sqrt{2} = 101.82) \\ C = 15^{o} & c = (36\sqrt{2}\sqrt{3} - 36\sqrt{2} = 37.27) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 45^{o} & a = (12\sqrt{2}\sqrt{3} = 29.39) \\ B = 60^{o} & b = 36 \\ C = 75^{o} & c = (6\sqrt{2}\sqrt{3} + 18\sqrt{2} = 40.15) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 30^{o} & a = 84 \\ B = 45^{o} & b = (84\sqrt{2} = 118.79) \\ C = 105^{o} & c = (42\sqrt{2} + 42\sqrt{2}\sqrt{3} = 162.28) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 60^{o} & a = (21\sqrt{2}\sqrt{3} = 51.44) \\ B = 75^{o} & b = (21 + 21\sqrt{3} = 57.37) \\ C = 45^{o} & c = 42 \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = \left[areaABC = \left(\frac{1089}{2} + \frac{1089\sqrt{3}}{2} = 1487.602 \right) \right] \\ .2 = [areaABC = (225 + 225\sqrt{3} = 614.711)] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = \left[B = 60^{o}, C = 75^{o}, c = (27 + 27\sqrt{3} = 73.77), areaABC = \left(\frac{729\sqrt{3}}{2} + \frac{2187}{2} = 1724.833 \right) \right] \\ .2 = \left[B = 120^{o}, C = 15^{o}, c = (27\sqrt{3} - 27 = 19.77), areaABC = \left(\frac{2187}{2} - \frac{729\sqrt{3}}{2} = 462.167 \right) \right] \end{bmatrix}, \quad , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

TrigonometryExercise7 Answers for No.9016

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 30^o & a = (42\sqrt{2} = 59.40) \\ B = 105^o & b = (42 + 42\sqrt{3} = 114.75) \\ C = 45^o & c = 84 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 30^o & a = 90 \\ B = 30^o & b = 90 \\ C = 120^o & c = (90\sqrt{3} = 155.88) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 30^o & a = 60 \\ B = 120^o & b = (60\sqrt{3} = 103.92) \\ C = 30^o & c = 60 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 30^o & a = (33\sqrt{2} = 46.67) \\ B = 45^o & b = 66 \\ C = 105^o & c = (33 + 33\sqrt{3} = 90.16) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = \left[areaABC = \left(\frac{3267}{2} - \frac{1089\sqrt{3}}{2} = 690.398 \right) \right] \\ .2 = \left[areaABC = (225\sqrt{3} = 389.711) \right] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = [B = 60^o, C = 75^o, c = (18 + 18\sqrt{3} = 49.18), areaABC = (162\sqrt{3} + 486 = 766.592)] \\ .2 = [B = 120^o, C = 15^o, c = (18\sqrt{3} - 18 = 13.18), areaABC = (486 - 162\sqrt{3} = 205.408)] \end{bmatrix}, \quad , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

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TrigonometryExercise7 Answers for No.9018

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 45^{o} & a = (24\sqrt{2}\sqrt{3} = 58.79) \\ B = 60^{o} & b = 72 \\ C = 75^{o} & c = (12\sqrt{2}\sqrt{3} + 36\sqrt{2} = 80.31) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 45^{o} & a = 78 \\ B = 75^{o} & b = (39 + 39\sqrt{3} = 106.55) \\ C = 60^{o} & c = (39\sqrt{2}\sqrt{3} = 95.53) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 30^{o} & a = 90 \\ B = 45^{o} & b = (90\sqrt{2} = 127.28) \\ C = 105^{o} & c = (45\sqrt{2} + 45\sqrt{2}\sqrt{3} = 173.87) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 75^{o} & a = (5\sqrt{2}\sqrt{3} + 15\sqrt{2} = 33.46) \\ B = 45^{o} & b = (10\sqrt{2}\sqrt{3} = 24.49) \\ C = 60^{o} & c = 30 \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (648 + 648\sqrt{3} = 1770.369)] \\ .2 = [areaABC = (75\sqrt{3} + 225 = 354.904)] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = \left[B = 60^{o}, C = 75^{o}, c = (27 + 27\sqrt{3} = 73.77), areaABC = \left(\frac{729\sqrt{3}}{2} + \frac{2187}{2} = 1724.833 \right) \right] \\ .2 = \left[B = 120^{o}, C = 15^{o}, c = (27\sqrt{3} - 27 = 19.77), areaABC = \left(\frac{2187}{2} - \frac{729\sqrt{3}}{2} = 462.167 \right) \right] \end{bmatrix}, \quad , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

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TrigonometryExercise7 Answers for No.9036

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 60^o & a = (45\sqrt{2}\sqrt{3} = 110.23) \\ B = 75^o & b = (45 + 45\sqrt{3} = 122.94) \\ C = 45^o & c = 90 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 30^o & a = 42 \\ B = 30^o & b = 42 \\ C = 120^o & c = (42\sqrt{3} = 72.75) \end{bmatrix} \end{bmatrix}, \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 75^o & a = (14\sqrt{2}\sqrt{3} + 42\sqrt{2} = 93.69) \\ B = 45^o & b = (28\sqrt{2}\sqrt{3} = 68.59) \\ C = 60^o & c = 84 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 75^o & a = (33 + 33\sqrt{3} = 90.16) \\ B = 45^o & b = 66 \\ C = 60^o & c = (33\sqrt{2}\sqrt{3} = 80.83) \end{bmatrix} \end{bmatrix}, \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (729 + 729\sqrt{3} = 1991.665)] \\ .2 = \left[areaABC = \left(\frac{225\sqrt{3}}{2} + \frac{675}{2} = 532.356 \right) \right] \end{bmatrix}, \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = [B = 60^o, C = 90^o, c = 60, areaABC = (450\sqrt{3} = 779.423)] \\ .2 = [B = 120^o, C = 30^o, c = 30, areaABC = (225\sqrt{3} = 389.711)] \end{bmatrix}, \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

TrigonometryExercise7 Answers for No.9037

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 45^{o} & a = 42 \\ B = 60^{o} & b = (21\sqrt{2}\sqrt{3} = 51.44) \\ C = 75^{o} & c = (21 + 21\sqrt{3} = 57.37) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 75^{o} & a = (7\sqrt{2}\sqrt{3} + 21\sqrt{2} = 46.84) \\ B = 45^{o} & b = (14\sqrt{2}\sqrt{3} = 34.29) \\ C = 60^{o} & c = 42 \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 75^{o} & a = (7\sqrt{2}\sqrt{3} + 21\sqrt{2} = 46.84) \\ B = 60^{o} & b = 42 \\ C = 45^{o} & c = (14\sqrt{2}\sqrt{3} = 34.29) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 120^{o} & a = (21\sqrt{2}\sqrt{3} = 51.44) \\ B = 15^{o} & b = (21\sqrt{3} - 21 = 15.37) \\ C = 45^{o} & c = 42 \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (225 + 225\sqrt{3} = 614.711)] \\ .2 = [areaABC = (75\sqrt{3} + 225 = 354.904)] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = \left[B = 60^{o}, C = 75^{o}, c = (33 + 33\sqrt{3} = 90.16), areaABC = \left(\frac{1089\sqrt{3}}{2} + \frac{3267}{2} = 2576.602 \right) \right] \\ .2 = \left[B = 120^{o}, C = 15^{o}, c = (33\sqrt{3} - 33 = 24.16), areaABC = \left(\frac{3267}{2} - \frac{1089\sqrt{3}}{2} = 690.398 \right) \right] \end{bmatrix}, \quad , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

TrigonometryExercise7 Answers for No.9138

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 120^{o} & a = (27\sqrt{2}\sqrt{3} = 66.14) \\ B = 15^{o} & b = (27\sqrt{3} - 27 = 19.77) \\ C = 45^{o} & c = 54 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 30^{o} & a = 30 \\ B = 135^{o} & b = (30\sqrt{2} = 42.43) \\ C = 15^{o} & c = (15\sqrt{2}\sqrt{3} - 15\sqrt{2} = 15.53) \end{bmatrix} \end{bmatrix}, \;, \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 120^{o} & a = (42\sqrt{2}\sqrt{3} = 102.88) \\ B = 45^{o} & b = 84 \\ C = 15^{o} & c = (42\sqrt{3} - 42 = 30.75) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 30^{o} & a = 84 \\ B = 120^{o} & b = (84\sqrt{3} = 145.49) \\ C = 30^{o} & c = 84 \end{bmatrix} \end{bmatrix}, \;, \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = \left[areaABC = \left(\frac{1089}{2} + \frac{1089\sqrt{3}}{2} = 1487.602 \right) \right] \\ .2 = [areaABC = (147\sqrt{3} + 441 = 695.611)] \end{bmatrix}, \;, \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = [B = 60^{o}, C = 75^{o}, c = (24 + 24\sqrt{3} = 65.57), areaABC = (288\sqrt{3} + 864 = 1362.831)] \\ .2 = [B = 120^{o}, C = 15^{o}, c = (24\sqrt{3} - 24 = 17.57), areaABC = (864 - 288\sqrt{3} = 365.169)] \end{bmatrix}, \;, \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

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TrigonometryExercise7 Answers for No.9602

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 45^o & a = (14\sqrt{2}\sqrt{3} = 34.29) \\ B = 75^o & b = (7\sqrt{2}\sqrt{3} + 21\sqrt{2} = 46.84) \\ C = 60^o & c = 42 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 45^o & a = (54\sqrt{2} = 76.37) \\ B = 30^o & b = 54 \\ C = 105^o & c = (27\sqrt{2} + 27\sqrt{2}\sqrt{3} = 104.32) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 60^o & a = 78 \\ B = 75^o & b = (13\sqrt{2}\sqrt{3} + 39\sqrt{2} = 87.00) \\ C = 45^o & c = (26\sqrt{2}\sqrt{3} = 63.69) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 120^o & a = (78\sqrt{3} = 135.10) \\ B = 30^o & b = 78 \\ C = 30^o & c = 78 \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (324\sqrt{3} = 561.184)] \\ .2 = [areaABC = (363\sqrt{3} + 1089 = 1717.734)] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = [B = 60^o, C = 75^o, c = (30 + 30\sqrt{3} = 81.96), areaABC = (450\sqrt{3} + 1350 = 2129.423)] \\ .2 = [B = 120^o, C = 15^o, c = (30\sqrt{3} - 30 = 21.96), areaABC = (1350 - 450\sqrt{3} = 570.577)] \end{bmatrix}, \quad , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

TrigonometryExercise7 Answers for No.9616

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 30^{o} & a = 78 \\ B = 120^{o} & b = (78\sqrt{3} = 135.10) \\ C = 30^{o} & c = 78 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 120^{o} & a = (45\sqrt{2}\sqrt{3} = 110.23) \\ B = 45^{o} & b = 90 \\ C = 15^{o} & c = (45\sqrt{3} - 45 = 32.94) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 60^{o} & a = 90 \\ B = 45^{o} & b = (30\sqrt{2}\sqrt{3} = 73.48) \\ C = 75^{o} & c = (15\sqrt{2}\sqrt{3} + 45\sqrt{2} = 100.38) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 15^{o} & a = (30\sqrt{3} - 30 = 21.96) \\ B = 120^{o} & b = (30\sqrt{2}\sqrt{3} = 73.48) \\ C = 45^{o} & c = 60 \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (675\sqrt{3} + 2025 = 3194.134)] \\ .2 = [areaABC = (450\sqrt{3} + 1350 = 2129.423)] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = [B = 60^{o}, C = 90^{o}, c = 84, areaABC = (882\sqrt{3} = 1527.669)] \\ .2 = [B = 120^{o}, C = 30^{o}, c = 42, areaABC = (441\sqrt{3} = 763.834)] \end{bmatrix}, \quad , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

TrigonometryExercise7 Answers for No.10152

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 75^{o} & a = (6\sqrt{2}\sqrt{3} + 18\sqrt{2} = 40.15) \\ B = 60^{o} & b = 36 \\ C = 45^{o} & c = (12\sqrt{2}\sqrt{3} = 29.39) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 45^{o} & a = 72 \\ B = 75^{o} & b = (36 + 36\sqrt{3} = 98.35) \\ C = 60^{o} & c = (36\sqrt{2}\sqrt{3} = 88.18) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 30^{o} & a = 84 \\ B = 120^{o} & b = (84\sqrt{3} = 145.49) \\ C = 30^{o} & c = 84 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 105^{o} & a = (18 + 18\sqrt{3} = 49.18) \\ B = 45^{o} & b = 36 \\ C = 30^{o} & c = (18\sqrt{2} = 25.46) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (1296\sqrt{3} - 1296 = 948.738)] \\ .2 = [areaABC = (2646 - 882\sqrt{3} = 1118.331)] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = \left[B = 60^{o}, C = 75^{o}, c = (39 + 39\sqrt{3} = 106.55), areaABC = \left(\frac{1521\sqrt{3}}{2} + \frac{4563}{2} = 3598.725 \right) \right] \\ .2 = \left[B = 120^{o}, C = 15^{o}, c = (39\sqrt{3} - 39 = 28.55), areaABC = \left(\frac{4563}{2} - \frac{1521\sqrt{3}}{2} = 964.275 \right) \right] \end{bmatrix}, \quad , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

TrigonometryExercise7 Answers for No.11738

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 45^{o} & a = 90 \\ B = 15^{o} & b = (45\sqrt{3} - 45 = 32.94) \\ C = 120^{o} & c = (45\sqrt{2}\sqrt{3} = 110.23) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 105^{o} & a = (30\sqrt{2} + 30\sqrt{2}\sqrt{3} = 115.91) \\ B = 30^{o} & b = 60 \\ C = 45^{o} & c = (60\sqrt{2} = 84.85) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 60^{o} & a = 78 \\ B = 75^{o} & b = (13\sqrt{2}\sqrt{3} + 39\sqrt{2} = 87.00) \\ C = 45^{o} & c = (26\sqrt{2}\sqrt{3} = 63.69) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 30^{o} & a = (33\sqrt{2} = 46.67) \\ B = 45^{o} & b = 66 \\ C = 105^{o} & c = (33 + 33\sqrt{3} = 90.16) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (225\sqrt{3} - 225 = 164.711)] \\ .2 = [areaABC = (75\sqrt{3} + 225 = 354.904)] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = \left[B = 60^{o}, C = 75^{o}, c = (15 + 15\sqrt{3} = 40.98), areaABC = \left(\frac{225\sqrt{3}}{2} + \frac{675}{2} = 532.356 \right) \right] \\ .2 = \left[B = 120^{o}, C = 15^{o}, c = (15\sqrt{3} - 15 = 10.98), areaABC = \left(\frac{675}{2} - \frac{225\sqrt{3}}{2} = 142.644 \right) \right] \end{bmatrix}, \quad , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

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TrigonometryExercise7 Answers for No.11754

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 135^o & a = (36\sqrt{2} = 50.91) \\ B = 15^o & b = (18\sqrt{2}\sqrt{3} - 18\sqrt{2} = 18.63) \\ C = 30^o & c = 36 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 15^o & a = (18\sqrt{3} - 18 = 13.18) \\ B = 45^o & b = 36 \\ C = 120^o & c = (18\sqrt{2}\sqrt{3} = 44.09) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 75^o & a = (14\sqrt{2}\sqrt{3} + 42\sqrt{2} = 93.69) \\ B = 60^o & b = 84 \\ C = 45^o & c = (28\sqrt{2}\sqrt{3} = 68.59) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 120^o & a = (36\sqrt{3} = 62.35) \\ B = 30^o & b = 36 \\ C = 30^o & c = 36 \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (1296\sqrt{3} = 2244.738)] \\ .2 = \left[areaABC = \left(\frac{729\sqrt{3}}{2} + \frac{2187}{2} = 1724.833 \right) \right] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = [B = 60^o, C = 75^o, c = (24 + 24\sqrt{3} = 65.57), areaABC = (288\sqrt{3} + 864 = 1362.831)] \\ .2 = [B = 120^o, C = 15^o, c = (24\sqrt{3} - 24 = 17.57), areaABC = (864 - 288\sqrt{3} = 365.169)] \end{bmatrix}, \quad , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

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TrigonometryExercise7 Answers for No.11841

$$Ans1 = \left[\begin{matrix} .1 = \left[\begin{matrix} A = 105^{o} & a = (42\sqrt{2} + 42\sqrt{2}\sqrt{3} = 162.28) \\ B = 30^{o} & b = 84 \\ C = 45^{o} & c = (84\sqrt{2} = 118.79) \end{matrix}\right] \\ .2 = \left[\begin{matrix} A = 105^{o} & a = (30 + 30\sqrt{3} = 81.96) \\ B = 30^{o} & b = (30\sqrt{2} = 42.43) \\ C = 45^{o} & c = 60 \end{matrix}\right] \end{matrix}\right], \quad , \left[\begin{matrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{matrix}\right]$$

$$Ans2 = \left[\begin{matrix} .1 = \left[\begin{matrix} A = 60^{o} & a = 78 \\ B = 75^{o} & b = (13\sqrt{2}\sqrt{3} + 39\sqrt{2} = 87.00) \\ C = 45^{o} & c = (26\sqrt{2}\sqrt{3} = 63.69) \end{matrix}\right] \\ .2 = \left[\begin{matrix} A = 120^{o} & a = (24\sqrt{2}\sqrt{3} = 58.79) \\ B = 15^{o} & b = (24\sqrt{3} - 24 = 17.57) \\ C = 45^{o} & c = 48 \end{matrix}\right] \end{matrix}\right], \quad , \left[\begin{matrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{matrix}\right]$$

$$Ans3 = \left[\begin{matrix} .1 = [areaABC = (192\sqrt{3} + 576 = 908.554)] \\ .2 = \left[areaABC = \left(\frac{1089\sqrt{3}}{2} + \frac{3267}{2} = 2576.602\right)\right] \end{matrix}\right], \quad , \left[\begin{matrix} M \\ a \\ t \\ h \end{matrix}\right]$$

$$Ans4 = \left[\begin{matrix} .1 = \left[B = 60^{o}, C = 75^{o}, c = (39 + 39\sqrt{3} = 106.55), areaABC = \left(\frac{1521\sqrt{3}}{2} + \frac{4563}{2} = 3598.725\right)\right] \\ .2 = \left[B = 120^{o}, C = 15^{o}, c = (39\sqrt{3} - 39 = 28.55), areaABC = \left(\frac{4563}{2} - \frac{1521\sqrt{3}}{2} = 964.275\right)\right] \end{matrix}\right], \quad , \left[\begin{matrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{matrix}\right]$$

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TrigonometryExercise7 Answers for No.11842

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 30^o & a = 48 \\ B = 30^o & b = 48 \\ C = 120^o & c = (48\sqrt{3} = 83.14) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 105^o & a = (36 + 36\sqrt{3} = 98.35) \\ B = 30^o & b = (36\sqrt{2} = 50.91) \\ C = 45^o & c = 72 \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 135^o & a = (66\sqrt{2} = 93.34) \\ B = 15^o & b = (33\sqrt{2}\sqrt{3} - 33\sqrt{2} = 34.16) \\ C = 30^o & c = 66 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 75^o & a = (8\sqrt{2}\sqrt{3} + 24\sqrt{2} = 53.54) \\ B = 60^o & b = 48 \\ C = 45^o & c = (16\sqrt{2}\sqrt{3} = 39.19) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = \left[areaABC = \left(\frac{729}{2} + \frac{729\sqrt{3}}{2} = 995.833 \right) \right] \\ .2 = [areaABC = (576\sqrt{3} = 997.661)] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = \left[B = 60^o, C = 75^o, c = (45 + 45\sqrt{3} = 122.94), areaABC = \left(\frac{2025\sqrt{3}}{2} + \frac{6075}{2} = 4791.201 \right) \right] \\ .2 = \left[B = 120^o, C = 15^o, c = (45\sqrt{3} - 45 = 32.94), areaABC = \left(\frac{6075}{2} - \frac{2025\sqrt{3}}{2} = 1283.799 \right) \right] \end{bmatrix}, \quad , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 30^{o} & a = 30 \\ B = 45^{o} & b = (30\sqrt{2} = 42.43) \\ C = 105^{o} & c = (15\sqrt{2} + 15\sqrt{2}\sqrt{3} = 57.96) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 120^{o} & a = (39\sqrt{2}\sqrt{3} = 95.53) \\ B = 45^{o} & b = 78 \\ C = 15^{o} & c = (39\sqrt{3} - 39 = 28.55) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 75^{o} & a = (8\sqrt{2}\sqrt{3} + 24\sqrt{2} = 53.54) \\ B = 60^{o} & b = 48 \\ C = 45^{o} & c = (16\sqrt{2}\sqrt{3} = 39.19) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 105^{o} & a = (15\sqrt{2} + 15\sqrt{2}\sqrt{3} = 57.96) \\ B = 45^{o} & b = (30\sqrt{2} = 42.43) \\ C = 30^{o} & c = 30 \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (588\sqrt{3} + 1764 = 2782.446)] \\ .2 = \left[areaABC = \left(\frac{1089\sqrt{3}}{2} + \frac{3267}{2} = 2576.602 \right) \right] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = [B = 60^{o}, C = 90^{o}, c = 84, areaABC = (882\sqrt{3} = 1527.669)] \\ .2 = [B = 120^{o}, C = 30^{o}, c = 42, areaABC = (441\sqrt{3} = 763.834)] \end{bmatrix}, \quad , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

TrigonometryExercise7 Answers for No.11947

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 60^o & a = 66 \\ B = 45^o & b = (22\sqrt{2}\sqrt{3} = 53.89) \\ C = 75^o & c = (11\sqrt{2}\sqrt{3} + 33\sqrt{2} = 73.61) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 15^o & a = (45\sqrt{3} - 45 = 32.94) \\ B = 120^o & b = (45\sqrt{2}\sqrt{3} = 110.23) \\ C = 45^o & c = 90 \end{bmatrix} \end{bmatrix}, \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 60^o & a = (33\sqrt{2}\sqrt{3} = 80.83) \\ B = 75^o & b = (33 + 33\sqrt{3} = 90.16) \\ C = 45^o & c = 66 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 75^o & a = (15\sqrt{2}\sqrt{3} + 45\sqrt{2} = 100.38) \\ B = 60^o & b = 90 \\ C = 45^o & c = (30\sqrt{2}\sqrt{3} = 73.48) \end{bmatrix} \end{bmatrix}, \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (648\sqrt{3} + 1944 = 3066.369)] \\ .2 = [areaABC = (108\sqrt{3} + 324 = 511.061)] \end{bmatrix}, \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = [B = 60^o, C = 90^o, c = 168, areaABC = (3528\sqrt{3} = 6110.675)] \\ .2 = [B = 120^o, C = 30^o, c = 84, areaABC = (1764\sqrt{3} = 3055.338)] \end{bmatrix}, \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

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TrigonometryExercise7 Answers for No.11989

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 45^o & a = (54\sqrt{2} = 76.37) \\ B = 105^o & b = (27\sqrt{2} + 27\sqrt{2}\sqrt{3} = 104.32) \\ C = 30^o & c = 54 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 45^o & a = 84 \\ B = 30^o & b = (42\sqrt{2} = 59.40) \\ C = 105^o & c = (42 + 42\sqrt{3} = 114.75) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 15^o & a = (21\sqrt{3} - 21 = 15.37) \\ B = 120^o & b = (21\sqrt{2}\sqrt{3} = 51.44) \\ C = 45^o & c = 42 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 60^o & a = 78 \\ B = 75^o & b = (13\sqrt{2}\sqrt{3} + 39\sqrt{2} = 87.00) \\ C = 45^o & c = (26\sqrt{2}\sqrt{3} = 63.69) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (648 + 648\sqrt{3} = 1770.369)] \\ .2 = [areaABC = (225\sqrt{3} = 389.711)] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = \left[B = 60^o, C = 75^o, c = (27 + 27\sqrt{3} = 73.77), areaABC = \left(\frac{729\sqrt{3}}{2} + \frac{2187}{2} = 1724.833 \right) \right] \\ .2 = \left[B = 120^o, C = 15^o, c = (27\sqrt{3} - 27 = 19.77), areaABC = \left(\frac{2187}{2} - \frac{729\sqrt{3}}{2} = 462.167 \right) \right] \end{bmatrix}, \quad , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

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TrigonometryExercise7 Answers for No.11996

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 30^{o} & a = (18\sqrt{2} = 25.46) \\ B = 105^{o} & b = (18 + 18\sqrt{3} = 49.18) \\ C = 45^{o} & c = 36 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 60^{o} & a = 66 \\ B = 45^{o} & b = (22\sqrt{2}\sqrt{3} = 53.89) \\ C = 75^{o} & c = (11\sqrt{2}\sqrt{3} + 33\sqrt{2} = 73.61) \end{bmatrix} \end{bmatrix}, \ , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 75^{o} & a = (14\sqrt{2}\sqrt{3} + 42\sqrt{2} = 93.69) \\ B = 45^{o} & b = (28\sqrt{2}\sqrt{3} = 68.59) \\ C = 60^{o} & c = 84 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 30^{o} & a = 90 \\ B = 30^{o} & b = 90 \\ C = 120^{o} & c = (90\sqrt{3} = 155.88) \end{bmatrix} \end{bmatrix}, \ , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (75\sqrt{3} + 225 = 354.904)] \\ .2 = \left[areaABC = \left(\frac{2187}{2} - \frac{729\sqrt{3}}{2} = 462.167 \right) \right] \end{bmatrix}, \ , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = [B = 60^{o}, C = 75^{o}, c = (18 + 18\sqrt{3} = 49.18), areaABC = (162\sqrt{3} + 486 = 766.592)] \\ .2 = [B = 120^{o}, C = 15^{o}, c = (18\sqrt{3} - 18 = 13.18), areaABC = (486 - 162\sqrt{3} = 205.408)] \end{bmatrix}, \ , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

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TrigonometryExercise7 Answers for No.12889

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 120^o & a = (66\sqrt{3} = 114.32) \\ B = 30^o & b = 66 \\ C = 30^o & c = 66 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 60^o & a = 42 \\ B = 75^o & b = (7\sqrt{2}\sqrt{3} + 21\sqrt{2} = 46.84) \\ C = 45^o & c = (14\sqrt{2}\sqrt{3} = 34.29) \end{bmatrix} \end{bmatrix}, \; , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 45^o & a = 72 \\ B = 120^o & b = (36\sqrt{2}\sqrt{3} = 88.18) \\ C = 15^o & c = (36\sqrt{3} - 36 = 26.35) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 75^o & a = (10\sqrt{2}\sqrt{3} + 30\sqrt{2} = 66.92) \\ B = 60^o & b = 60 \\ C = 45^o & c = (20\sqrt{2}\sqrt{3} = 48.99) \end{bmatrix} \end{bmatrix}, \; , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (1296 + 1296\sqrt{3} = 3540.738)] \\ .2 = [areaABC = (588\sqrt{3} + 1764 = 2782.446)] \end{bmatrix}, \; , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = [B = 60^o, C = 75^o, c = (24 + 24\sqrt{3} = 65.57), areaABC = (288\sqrt{3} + 864 = 1362.831)] \\ .2 = [B = 120^o, C = 15^o, c = (24\sqrt{3} - 24 = 17.57), areaABC = (864 - 288\sqrt{3} = 365.169)] \end{bmatrix}, \; , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

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TrigonometryExercise7 Answers for No.12890

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 45^o & a = 36 \\ B = 105^o & b = (18 + 18\sqrt{3} = 49.18) \\ C = 30^o & c = (18\sqrt{2} = 25.46) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 75^o & a = (13\sqrt{2}\sqrt{3} + 39\sqrt{2} = 87.00) \\ B = 45^o & b = (26\sqrt{2}\sqrt{3} = 63.69) \\ C = 60^o & c = 78 \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 60^o & a = 78 \\ B = 75^o & b = (13\sqrt{2}\sqrt{3} + 39\sqrt{2} = 87.00) \\ C = 45^o & c = (26\sqrt{2}\sqrt{3} = 63.69) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 15^o & a = (27\sqrt{3} - 27 = 19.77) \\ B = 45^o & b = 54 \\ C = 120^o & c = (27\sqrt{2}\sqrt{3} = 66.14) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = \left[areaABC = \left(\frac{6075}{2} - \frac{2025\sqrt{3}}{2} = 1283.799 \right) \right] \\ .2 = [areaABC = (225\sqrt{3} = 389.711)] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = [B = 60^o, C = 75^o, c = (36 + 36\sqrt{3} = 98.35), areaABC = (648\sqrt{3} + 1944 = 3066.369)] \\ .2 = [B = 120^o, C = 15^o, c = (36\sqrt{3} - 36 = 26.35), areaABC = (1944 - 648\sqrt{3} = 821.631)] \end{bmatrix}, \quad , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

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TrigonometryExercise7 Answers for No.12891

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 45^o & a = (36\sqrt{2} = 50.91) \\ B = 105^o & b = (18\sqrt{2} + 18\sqrt{2}\sqrt{3} = 69.55) \\ C = 30^o & c = 36 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 60^o & a = 72 \\ B = 75^o & b = (12\sqrt{2}\sqrt{3} + 36\sqrt{2} = 80.31) \\ C = 45^o & c = (24\sqrt{2}\sqrt{3} = 58.79) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 30^o & a = 72 \\ B = 30^o & b = 72 \\ C = 120^o & c = (72\sqrt{3} = 124.71) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 75^o & a = (14\sqrt{2}\sqrt{3} + 42\sqrt{2} = 93.69) \\ B = 45^o & b = (28\sqrt{2}\sqrt{3} = 68.59) \\ C = 60^o & c = 84 \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = \left[areaABC = \left(\frac{4563}{2} - \frac{1521\sqrt{3}}{2} = 964.275 \right) \right] \\ .2 = [areaABC = (192\sqrt{3} + 576 = 908.554)] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = [B = 60^o, C = 90^o, c = 132, areaABC = (2178\sqrt{3} = 3772.407)] \\ .2 = [B = 120^o, C = 30^o, c = 66, areaABC = (1089\sqrt{3} = 1886.203)] \end{bmatrix}, \quad , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

TrigonometryExercise7 Answers for No.12917

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 30^o & a = 36 \\ B = 30^o & b = 36 \\ C = 120^o & c = (36\sqrt{3} = 62.35) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 75^o & a = (7\sqrt{2}\sqrt{3} + 21\sqrt{2} = 46.84) \\ B = 60^o & b = 42 \\ C = 45^o & c = (14\sqrt{2}\sqrt{3} = 34.29) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 60^o & a = 90 \\ B = 45^o & b = (30\sqrt{2}\sqrt{3} = 73.48) \\ C = 75^o & c = (15\sqrt{2}\sqrt{3} + 45\sqrt{2} = 100.38) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 105^o & a = (27\sqrt{2} + 27\sqrt{2}\sqrt{3} = 104.32) \\ B = 45^o & b = (54\sqrt{2} = 76.37) \\ C = 30^o & c = 54 \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (324\sqrt{3} - 324 = 237.184)] \\ .2 = [areaABC = (243\sqrt{3} + 729 = 1149.888)] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = [B = 60^o, C = 90^o, c = 168, areaABC = (3528\sqrt{3} = 6110.675)] \\ .2 = [B = 120^o, C = 30^o, c = 84, areaABC = (1764\sqrt{3} = 3055.338)] \end{bmatrix}, \quad , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

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TrigonometryExercise7 Answers for No.13099

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 45^o & a = 72 \\ B = 75^o & b = (36 + 36\sqrt{3} = 98.35) \\ C = 60^o & c = (36\sqrt{2}\sqrt{3} = 88.18) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 120^o & a = (36\sqrt{3} = 62.35) \\ B = 30^o & b = 36 \\ C = 30^o & c = 36 \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 15^o & a = (36\sqrt{2}\sqrt{3} - 36\sqrt{2} = 37.27) \\ B = 135^o & b = (72\sqrt{2} = 101.82) \\ C = 30^o & c = 72 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 45^o & a = (10\sqrt{2}\sqrt{3} = 24.49) \\ B = 60^o & b = 30 \\ C = 75^o & c = (5\sqrt{2}\sqrt{3} + 15\sqrt{2} = 33.46) \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (432\sqrt{3} + 1296 = 2044.246)] \\ .2 = [areaABC = (576\sqrt{3} = 997.661)] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = \left[B = 60^o, C = 75^o, c = (39 + 39\sqrt{3} = 106.55), areaABC = \left(\frac{1521\sqrt{3}}{2} + \frac{4563}{2} = 3598.725 \right) \right] \\ .2 = \left[B = 120^o, C = 15^o, c = (39\sqrt{3} - 39 = 28.55), areaABC = \left(\frac{4563}{2} - \frac{1521\sqrt{3}}{2} = 964.275 \right) \right] \end{bmatrix}, \quad , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

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TrigonometryExercise7 Answers for No.13100

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 15^o & a = (27\sqrt{2}\sqrt{3} - 27\sqrt{2} = 27.95) \\ B = 30^o & b = 54 \\ C = 135^o & c = (54\sqrt{2} = 76.37) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 45^o & a = (22\sqrt{2}\sqrt{3} = 53.89) \\ B = 75^o & b = (11\sqrt{2}\sqrt{3} + 33\sqrt{2} = 73.61) \\ C = 60^o & c = 66 \end{bmatrix} \end{bmatrix}, \ , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 60^o & a = (27\sqrt{2}\sqrt{3} = 66.14) \\ B = 75^o & b = (27 + 27\sqrt{3} = 73.77) \\ C = 45^o & c = 54 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 30^o & a = 42 \\ B = 120^o & b = (42\sqrt{3} = 72.75) \\ C = 30^o & c = 42 \end{bmatrix} \end{bmatrix}, \ , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (576\sqrt{3} - 576 = 421.661)] \\ .2 = [areaABC = (363\sqrt{3} + 1089 = 1717.734)] \end{bmatrix}, \ , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = [B = 60^o, C = 90^o, c = 84, areaABC = (882\sqrt{3} = 1527.669)] \\ .2 = [B = 120^o, C = 30^o, c = 42, areaABC = (441\sqrt{3} = 763.834)] \end{bmatrix}, \ , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

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TrigonometryExercise7 Answers for No.13139

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 120^{o} & a = (42\sqrt{3} = 72.75) \\ B = 30^{o} & b = 42 \\ C = 30^{o} & c = 42 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 75^{o} & a = (12\sqrt{2}\sqrt{3} + 36\sqrt{2} = 80.31) \\ B = 45^{o} & b = (24\sqrt{2}\sqrt{3} = 58.79) \\ C = 60^{o} & c = 72 \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 45^{o} & a = 66 \\ B = 15^{o} & b = (33\sqrt{3} - 33 = 24.16) \\ C = 120^{o} & c = (33\sqrt{2}\sqrt{3} = 80.83) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 75^{o} & a = (11\sqrt{2}\sqrt{3} + 33\sqrt{2} = 73.61) \\ B = 45^{o} & b = (22\sqrt{2}\sqrt{3} = 53.89) \\ C = 60^{o} & c = 66 \end{bmatrix} \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (507\sqrt{3} + 1521 = 2399.150)] \\ .2 = [areaABC = (1350 - 450\sqrt{3} = 570.577)] \end{bmatrix}, \quad , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = [B = 60^{o}, C = 90^{o}, c = 60, areaABC = (450\sqrt{3} = 779.423)] \\ .2 = [B = 120^{o}, C = 30^{o}, c = 30, areaABC = (225\sqrt{3} = 389.711)] \end{bmatrix}, \quad , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

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TrigonometryExercise7 Answers for No.13411

$$Ans1 = \begin{bmatrix} .1 = \begin{bmatrix} A = 45^o & a = 60 \\ B = 60^o & b = (30\sqrt{2}\sqrt{3} = 73.48) \\ C = 75^o & c = (30 + 30\sqrt{3} = 81.96) \end{bmatrix} \\ .2 = \begin{bmatrix} A = 45^o & a = (22\sqrt{2}\sqrt{3} = 53.89) \\ B = 75^o & b = (11\sqrt{2}\sqrt{3} + 33\sqrt{2} = 73.61) \\ C = 60^o & c = 66 \end{bmatrix} \end{bmatrix}, \; , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans2 = \begin{bmatrix} .1 = \begin{bmatrix} A = 30^o & a = 78 \\ B = 120^o & b = (78\sqrt{3} = 135.10) \\ C = 30^o & c = 78 \end{bmatrix} \\ .2 = \begin{bmatrix} A = 120^o & a = (39\sqrt{2}\sqrt{3} = 95.53) \\ B = 45^o & b = 78 \\ C = 15^o & c = (39\sqrt{3} - 39 = 28.55) \end{bmatrix} \end{bmatrix}, \; , \begin{bmatrix} M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \end{bmatrix}$$

$$Ans3 = \begin{bmatrix} .1 = [areaABC = (507\sqrt{3} + 1521 = 2399.150)] \\ .2 = [areaABC = (1296 + 1296\sqrt{3} = 3540.738)] \end{bmatrix}, \; , \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = \begin{bmatrix} .1 = \left[B = 60^o, C = 75^o, c = (33 + 33\sqrt{3} = 90.16), areaABC = \left(\frac{1089\sqrt{3}}{2} + \frac{3267}{2} = 2576.602 \right) \right] \\ .2 = \left[B = 120^o, C = 15^o, c = (33\sqrt{3} - 33 = 24.16), areaABC = \left(\frac{3267}{2} - \frac{1089\sqrt{3}}{2} = 690.398 \right) \right] \end{bmatrix}, \; , \begin{bmatrix} @ \\ M \\ U \\ T \\ :) \\ :D \end{bmatrix}$$

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