

X Math@MUT XX M5/1-6300108-00001XX
TrigonometryExercise8 Answers for No.9012

$$Ans1 = [64\sqrt{3} = 110.851], \quad , \quad Ans2 = [\sqrt{130 - 63\sqrt{2}} = 6.396], \quad , \quad Ans3 = \begin{bmatrix} .1 = (26\sqrt{3} = 45.033) \\ .2 = \left(\arctan\left(\frac{13\sqrt{3}}{60}\right) = 20.570^\circ \right) \end{bmatrix}, \quad , \quad \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = 131.754, \quad , \quad Ans5 = 133.722, \quad , \quad Ans6 = 153, \quad , \quad Ans7 = \begin{bmatrix} .I = 219 \\ .2 = 155 \end{bmatrix}, \quad , \quad \begin{bmatrix} @ \\ M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise8 Answers for No.9016

$$Ans1 = [60\sqrt{3} = 103.923], \quad , \quad Ans2 = [\sqrt{61} = 7.810], \quad , \quad Ans3 = \begin{bmatrix} .1 = 72 \\ .2 = \left(\arctan\left(\frac{4}{7}\right) = 29.745^\circ \right) \end{bmatrix}, \quad , \quad \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = 132.157, \quad , \quad Ans5 = 101.869, \quad , \quad Ans6 = 202, \quad , \quad Ans7 = \begin{bmatrix} .I = 386 \\ .2 = 221 \end{bmatrix}, \quad , \quad \begin{bmatrix} @ \\ M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise8 Answers for No.9018

$$Ans1 = [144\sqrt{3} - 144 = 105.415], \quad , \quad Ans2 = [\sqrt{34 - 15\sqrt{2}} = 3.576], \quad , \quad Ans3 = \begin{bmatrix} .1 = (66\sqrt{3} = 114.315) \\ .2 = \left(\arctan\left(\frac{11\sqrt{3}}{17}\right) = 48.258^\circ \right) \end{bmatrix}, \quad , \quad \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = 141.382, \quad , \quad Ans5 = 98.217, \quad , \quad Ans6 = 232, \quad , \quad Ans7 = \begin{bmatrix} .I = 310 \\ .2 = 155 \end{bmatrix}, \quad , \quad \begin{bmatrix} @ \\ M \\ U \\ T \end{bmatrix}$$

[illegible]

X Math@MUT XXXM5/1-6300108-00004XX
TrigonometryExercise8 Answers for No.9036

$$Ans1 = [132 \sqrt{3} - 132 = 96.631], \quad , \quad Ans2 = [3 \sqrt{7} = 7.937], \quad , \quad Ans3 = \begin{bmatrix} .I = 72 \\ .2 = \left(\arctan\left(\frac{12}{19}\right) = 32.276^\circ \right) \end{bmatrix}, \quad , \quad \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = 131.950, \quad , \quad Ans5 = 148.084, \quad , \quad Ans6 = 209, \quad , \quad Ans7 = \begin{bmatrix} .1 = 106 \\ .2 = 53 \end{bmatrix}, \quad , \quad \begin{bmatrix} @ \\ M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise8 Answers for No.9037

$$Ans1 = [144\sqrt{3} - 144 = 105.415], \quad , \quad Ans2 = [\sqrt{61 - 30\sqrt{3}} = 3.006], \quad , \quad Ans3 = \begin{bmatrix} .1 = (28\sqrt{3} = 48.497) \\ .2 = \left(\arctan\left(\frac{7\sqrt{3}}{36}\right) = 18.613^\circ \right) \end{bmatrix}, \quad , \quad \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = 191.263, \quad , \quad Ans5 = 81.992, \quad , \quad Ans6 = 224, \quad , \quad Ans7 = \begin{bmatrix} .I = 272 \\ .2 = 192 \end{bmatrix}, \quad , \quad \begin{bmatrix} @ \\ M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise8 Answers for No.9138

$$Ans1 = [108 - 36\sqrt{3} = 45.646], \quad , \quad Ans2 = [2\sqrt{7} = 5.292], \quad , \quad Ans3 = \begin{bmatrix} .1 = (32\sqrt{3} = 55.426) \\ .2 = \left(\arctan\left(\frac{2\sqrt{3}}{9}\right) = 21.052^\circ\right) \end{bmatrix}, \quad , \quad \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = 152.432, \quad , \quad Ans5 = 110.703, \quad , \quad Ans6 = 239, \quad , \quad Ans7 = \begin{bmatrix} .1 = 199 \\ .2 = 99 \end{bmatrix}, \quad , \quad \begin{bmatrix} @ \\ M \\ U \\ T \end{bmatrix}$$

[illegible]

X Math@MUT XXXM5/1-6300108-00007XX
TrigonometryExercise8 Answers for No.9602

$$Ans1 = [90\sqrt{3} - 90 = 65.885], \quad , \quad Ans2 = [\sqrt{73} = 8.544], \quad , \quad Ans3 = \begin{bmatrix} .1 = (96\sqrt{3} = 166.277) \\ .2 = \left(\arctan\left(\frac{2\sqrt{3}}{3}\right) = 49.107^\circ \right) \end{bmatrix}, \quad , \quad \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = 181.917, \quad , \quad Ans5 = 86.213, \quad , \quad Ans6 = 155, \quad , \quad Ans7 = \begin{bmatrix} .I = 210 \\ .2 = 149 \end{bmatrix}, \quad , \quad \begin{bmatrix} @ \\ M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise8 Answers for No.9616

$$Ans1 = [72 - 24\sqrt{3} = 30.431], \quad , \quad Ans2 = [\sqrt{145 - 72\sqrt{2}} = 6.571], \quad , \quad Ans3 = \begin{bmatrix} .I = 66 \\ .2 = \left(\arctan\left(\frac{11}{16}\right) = 34.509^\circ \right) \end{bmatrix}, \quad , \quad \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = 191.837, \quad , \quad Ans5 = 102.591, \quad , \quad Ans6 = 184, \quad , \quad Ans7 = \begin{bmatrix} .1 = 250 \\ .2 = 161 \end{bmatrix}, \quad , \quad \begin{bmatrix} @ \\ M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise8 Answers for No.10152

$$Ans1 = [84\sqrt{3} = 145.492], \quad , \quad Ans2 = [\sqrt{130 - 63\sqrt{2}} = 6.396], \quad , \quad Ans3 = \begin{bmatrix} .1 = (96\sqrt{3} = 166.277) \\ .2 = \left(\arctan\left(\frac{2\sqrt{3}}{3}\right) = 49.107^\circ \right) \end{bmatrix}, \quad , \quad \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = 171.959, \quad , \quad Ans5 = 116.827, \quad , \quad Ans6 = 228, \quad , \quad Ans7 = \begin{bmatrix} .I = 157 \\ .2 = 101 \end{bmatrix}, \quad , \quad \begin{bmatrix} @ \\ M \\ U \\ T \end{bmatrix}$$

[illegible]

X Math@MUT XX
TrigonometryExercise8 Answers for No.11738

$$Ans1 = [138\sqrt{3} - 138 = 101.023], \quad , \quad Ans2 = [3\sqrt{10 - 3\sqrt{2}} = 7.198], \quad , \quad Ans3 = \begin{bmatrix} .1 = (32\sqrt{3} = 55.426) \\ .2 = \left(\arctan\left(\frac{8\sqrt{3}}{39}\right) = 19.560^\circ \right) \end{bmatrix}, \quad , \quad \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = 161.850, \quad , \quad Ans5 = 118.388, \quad , \quad Ans6 = 203, \quad , \quad Ans7 = \begin{bmatrix} .1 = 395 \\ .2 = 254 \end{bmatrix}, \quad , \quad \begin{bmatrix} @ \\ M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise8 Answers for No.11754

$$Ans1 = [84 - 28\sqrt{3} = 35.503], \quad , \quad Ans2 = [\sqrt{65 - 28\sqrt{3}} = 4.062], \quad , \quad Ans3 = \begin{bmatrix} .1 = (72\sqrt{3} = 124.708) \\ .2 = \left(\arctan\left(\frac{4\sqrt{3}}{7}\right) = 44.705^\circ\right) \end{bmatrix}, \quad \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = 172.279, \quad , \quad Ans5 = 97.820, \quad , \quad Ans6 = 146, \quad , \quad Ans7 = \begin{bmatrix} .I = 439 \\ .2 = 282 \end{bmatrix}, \quad , \quad \begin{bmatrix} @ \\ M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise8 Answers for No.11841

$$Ans1 = [84\sqrt{3} - 84 = 61.492], \quad , \quad Ans2 = [2\sqrt{13 - 6\sqrt{2}} = 4.250], \quad , \quad Ans3 = \begin{bmatrix} .1 = 60 \\ .2 = \left(\arctan\left(\frac{5}{9}\right) = 29.055^\circ\right) \end{bmatrix}, \quad , \quad \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = 191.600, \quad , \quad Ans5 = 81.909, \quad , \quad Ans6 = 127, \quad , \quad Ans7 = \begin{bmatrix} .I = 488 \\ .2 = 313 \end{bmatrix}, \quad , \quad \begin{bmatrix} @ \\ M \\ U \\ T \end{bmatrix}$$

[illegible]

X Math@MUT XX M5/1-6300108-00013XX
TrigonometryExercise8 Answers for No.11842

$$Ans1 = [60 \sqrt{3} = 103.923], \quad , \quad Ans2 = [\sqrt{73} = 8.544], \quad , \quad Ans3 = \left[\begin{array}{l} .1 = 72 \\ .2 = \left(\arctan\left(\frac{12}{19}\right) = 32.276^\circ \right) \end{array} \right], \quad , \quad \left[\begin{array}{l} M \\ a \\ t \\ h \end{array} \right]$$

$$Ans4 = 152.149, \quad , \quad Ans5 = 60.334, \quad , \quad Ans6 = 245, \quad , \quad Ans7 = \begin{bmatrix} .1 = 312 \\ .2 = 156 \end{bmatrix}, \quad , \quad \begin{bmatrix} @ \\ M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise8 Answers for No.11901

$$Ans1 = [66\sqrt{3} - 66 = 48.315], \quad , \quad Ans2 = [4\sqrt{5 - 2\sqrt{3}} = 4.957], \quad , \quad Ans3 = \begin{bmatrix} .1 = (26\sqrt{3} = 45.033) \\ .2 = \left(\arctan\left(\frac{13\sqrt{3}}{63}\right) = 19.667^\circ \right) \end{bmatrix}, \quad , \quad \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = 171.709, \quad , \quad Ans5 = 116.114, \quad , \quad Ans6 = 275, \quad , \quad Ans7 = \begin{bmatrix} .I = 395 \\ .2 = 280 \end{bmatrix}, \quad , \quad \begin{bmatrix} @ \\ M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise8 Answers for No.11947

$$Ans1 = [132 \sqrt{3} - 132 = 96.631], \quad , \quad Ans2 = [2 \sqrt{7} = 5.292], \quad , \quad Ans3 = \begin{bmatrix} .I = 90 \\ .2 = \left(\arctan\left(\frac{15}{22}\right) = 34.287^\circ \right) \end{bmatrix}, \quad , \quad \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = 171.859, \quad , \quad Ans5 = 78.892, \quad , \quad Ans6 = 150, \quad , \quad Ans7 = \begin{bmatrix} .1 = 366 \\ .2 = 183 \end{bmatrix}, \quad , \quad \begin{bmatrix} @ \\ M \\ U \\ T \end{bmatrix}$$

X Math@MUT XX
TrigonometryExercise8 Answers for No.11989

$$Ans1 = [56\sqrt{3} = 96.995], \quad , \quad Ans2 = [3\sqrt{5-2\sqrt{3}} = 3.718], \quad , \quad Ans3 = \begin{bmatrix} .1 = (96\sqrt{3} = 166.277) \\ .2 = \left(\arctan\left(\frac{16\sqrt{3}}{21}\right) = 52.846^\circ \right) \end{bmatrix}, \quad , \quad \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = 181.767, \quad , \quad Ans5 = 136.152, \quad , \quad Ans6 = 303, \quad , \quad Ans7 = \begin{bmatrix} .1 = 425 \\ .2 = 301 \end{bmatrix}, \quad , \quad \begin{bmatrix} @ \\ M \\ U \\ T \end{bmatrix}$$

X Math@MUT XX
TrigonometryExercise8 Answers for No.11996

$$Ans1 = [104\sqrt{3} = 180.133], \quad , \quad Ans2 = [\sqrt{19} = 4.359], \quad , \quad Ans3 = \begin{bmatrix} .1 = (72\sqrt{3} = 124.708) \\ .2 = \left(\arctan\left(\frac{3\sqrt{3}}{5}\right) = 46.102^\circ\right) \end{bmatrix}, \quad \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = 191.750, \quad , \quad Ans5 = 89.929, \quad , \quad Ans6 = 294, \quad , \quad Ans7 = \begin{bmatrix} .I = 230 \\ .2 = 115 \end{bmatrix}, \quad , \quad \begin{bmatrix} @ \\ M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise8 Answers for No.12889

$$Ans1 = [88\sqrt{3} = 152.420], \quad , \quad Ans2 = [\sqrt{25 - 12\sqrt{2}} = 2.834], \quad , \quad Ans3 = \begin{bmatrix} .1 = (90\sqrt{3} = 155.885) \\ .2 = \left(\arctan\left(\frac{5\sqrt{3}}{7}\right) = 51.052^\circ\right) \end{bmatrix}, \quad \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = 191.363, \quad , \quad Ans5 = 47.687, \quad , \quad Ans6 = 142, \quad , \quad Ans7 = \begin{bmatrix} .I = 554 \\ .2 = 356 \end{bmatrix}, \quad , \quad \begin{bmatrix} @ \\ M \\ U \\ T \end{bmatrix}$$

[illegible]

X Math@MUT XX M5/1-6300108-00019XX
TrigonometryExercise8 Answers for No.12890

$$Ans1 = [52 \sqrt{3} = 90.067], \quad , \quad Ans2 = [\sqrt{61 - 30 \sqrt{3}} = 3.006], \quad , \quad Ans3 = \begin{bmatrix} .1 = (90 \sqrt{3} = 155.885) \\ .2 = \left(\arctan\left(\frac{3 \sqrt{3}}{4}\right) = 52.411^\circ \right) \end{bmatrix}, \quad , \quad \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = 181.917, \quad , \quad Ans5 = 67.920, \quad , \quad Ans6 = 184, \quad , \quad Ans7 = \begin{bmatrix} .I = 137 \\ .2 = 79 \end{bmatrix}, \quad , \quad \begin{bmatrix} @ \\ M \\ U \\ T \end{bmatrix}$$

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TrigonometryExercise8 Answers for No.12891

$$Ans1 = [56\sqrt{3} = 96.995], \quad , \quad Ans2 = [\sqrt{25 - 12\sqrt{3}} = 2.053], \quad , \quad Ans3 = \begin{bmatrix} .1 = (60\sqrt{3} = 103.923) \\ .2 = \left(\arctan\left(\frac{10\sqrt{3}}{21}\right) = 39.515^\circ\right) \end{bmatrix}, \quad \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = 141.607, \quad , \quad Ans5 = 99.175, \quad , \quad Ans6 = 182, \quad , \quad Ans7 = \begin{bmatrix} .I = 235 \\ .2 = 166 \end{bmatrix}, \quad , \quad \begin{bmatrix} @ \\ M \\ U \\ T \end{bmatrix}$$

X Math@MUT XX M5/1-6300108-00021XX
TrigonometryExercise8 Answers for No.12917

$$Ans1 = [44\sqrt{3} = 76.210], \quad , \quad Ans2 = [2\sqrt{13 - 6\sqrt{3}} = 3.230], \quad , \quad Ans3 = \begin{bmatrix} .1 = 60 \\ .2 = \left(\arctan\left(\frac{1}{2}\right) = 26.565^\circ\right) \end{bmatrix}, \quad , \quad \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = 181.733, \quad , \quad Ans5 = 89.361, \quad , \quad Ans6 = 121, \quad , \quad Ans7 = \begin{bmatrix} .I = 89 \\ .2 = 51 \end{bmatrix}, \quad , \quad \begin{bmatrix} @ \\ M \\ U \\ T \end{bmatrix}$$

[illegible]

X Math@MUT XX M5/1-6300108-00022XX
TrigonometryExercise8 Answers for No.13099

$$Ans1 = [60\sqrt{3} - 60 = 43.923], \quad , \quad Ans2 = [2\sqrt{7} = 5.292], \quad , \quad Ans3 = \begin{bmatrix} .1 = (24\sqrt{3} = 41.569) \\ .2 = \left(\arctan\left(\frac{2\sqrt{3}}{11}\right) = 17.480^\circ \right) \end{bmatrix}, \quad \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = 151.983, \quad , \quad Ans5 = 75.532, \quad , \quad Ans6 = 189, \quad , \quad Ans7 = \begin{bmatrix} .I = 251 \\ .2 = 177 \end{bmatrix}, \quad , \quad \begin{bmatrix} @ \\ M \\ U \\ T \end{bmatrix}$$

X Math@MUT XX M5/1-6300108-00023XX
TrigonometryExercise8 Answers for No.13100

$$Ans1 = [52 \sqrt{3} = 90.067], \quad , \quad Ans2 = [\sqrt{21} = 4.583], \quad , \quad Ans3 = \begin{bmatrix} .1 = (24 \sqrt{3} = 41.569) \\ .2 = \left(\arctan\left(\frac{4 \sqrt{3}}{23}\right) = 16.764^\circ \right) \end{bmatrix}, \quad , \quad \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = 182.033, \quad , \quad Ans5 = 142.527, \quad , \quad Ans6 = 292, \quad , \quad Ans7 = \begin{bmatrix} .I = 205 \\ .2 = 132 \end{bmatrix}, \quad , \quad \begin{bmatrix} @ \\ M \\ U \\ T \end{bmatrix}$$

X Math@MUT XX M5/1-6300108-00024XX
TrigonometryExercise8 Answers for No.13139

$$Ans1 = [80\sqrt{3} = 138.564], \quad , \quad Ans2 = [\sqrt{43} = 6.557], \quad , \quad Ans3 = \left[.2 = \left(\arctan\left(\frac{12}{19}\right) = 32.276^\circ \right) \right], \quad , \quad \begin{bmatrix} M \\ a \\ t \\ h \end{bmatrix}$$

$$Ans4 = 141.775, \quad , \quad Ans5 = 86.649, \quad , \quad Ans6 = 186, \quad , \quad Ans7 = \begin{bmatrix} .1 = 532 \\ .2 = 342 \end{bmatrix}, \quad , \quad \begin{bmatrix} @ \\ M \\ U \\ T \end{bmatrix}$$

[illegible]

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