Measuring Distances with Trigonometric Ratios ... Set 3

Answers

Using Trigonometry to Find Angle Measures

Find each angle measure to the nearest degree.

1)
$$\tan A = 2.0503$$

$$A = \tan^{-1}(0.0503)$$

$$A = 64^{\circ}$$
63.9999577

3)
$$\tan Y = 0.6494$$

 $Y = \pm m^{-1} (0.6494)$
 $Y = 33^{\circ}$

5)
$$\cos V = 0.6820$$

 $V = \cos^{-1} \left(0.6820\right)$
 $V = 47^{\circ}$

2)
$$\cos Z = 0.1219$$
 $Z = 83^{\circ}$ $Z = \cos^{-1}(0.1219)$ 2.9982303

4)
$$\sin U = 0.8746$$

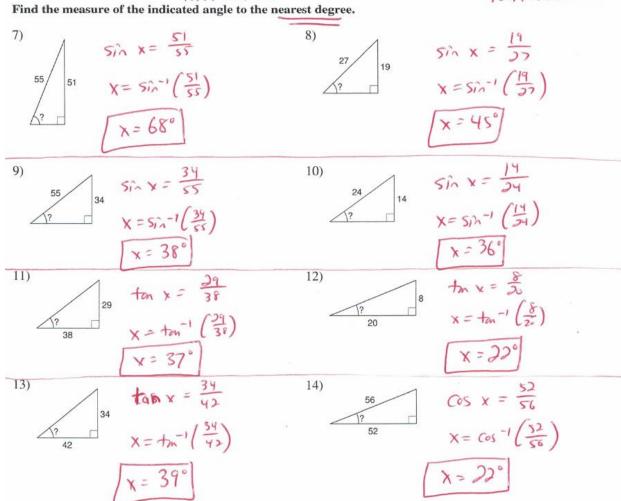
$$U = 57^{-1} \left(0.8746\right) \qquad U = 61^{\circ}$$

$$60.9976710559$$

6)
$$\sin C = 0.2756$$

$$C = 50^{-1} (0.2756) = C = 16^{\circ}$$

$$15.8977731276$$



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