Answer Key · Lesson 1.4: Finding Unknown Angles

School Launch · Trigonometry · Unit 1 · Worksheet A · for the parent

Key

1. $\approx 76.4^\circ$

Find θ (nearest tenth of a degree) if $\cos\theta = \frac{4}{17}$ and θ is acute.

2. $\approx 52.1^\circ$

Find θ (nearest tenth of a degree) if $\sin\theta = \frac{15}{19}$ and θ is acute.

3. $\approx 73.7^\circ$

Find θ (nearest tenth of a degree) if $\cos\theta = \frac{7}{25}$ and θ is acute.

4. $\approx 57.6^\circ$

1. $\theta = \cos^{-1}\left(\frac{15}{28}\right)$ in degree mode.

Find θ (nearest tenth of a degree) if $\cos\theta = \frac{15}{28}$ and θ is acute.

5. $\approx 36.0^\circ$

1. $\theta = \sin^{-1}\left(\frac{10}{17}\right)$ in degree mode.

Find θ (nearest tenth of a degree) if $\sin\theta = \frac{10}{17}$ and θ is acute.

6. $\approx 56.3^\circ$

1. $\theta = \cos^{-1}\left(\frac{10}{18}\right)$ in degree mode.

Find θ (nearest tenth of a degree) if $\cos\theta = \frac{10}{18}$ and θ is acute.

7. $\approx 24.9^\circ$

1. $\theta = \sin^{-1}\left(\frac{8}{19}\right)$ in degree mode.

Find θ (nearest tenth of a degree) if $\sin\theta = \frac{8}{19}$ and θ is acute.

8. $\approx 6.3^\circ$

1. $\theta = \tan^{-1}\left(\frac{3}{27}\right)$ in degree mode.

Find θ (nearest tenth of a degree) if $\tan\theta = \frac{3}{27}$ and θ is acute.

9. $\approx 54.6^\circ$

1. $\theta = \cos^{-1}\left(\frac{11}{19}\right)$ in degree mode.

Find θ (nearest tenth of a degree) if $\cos\theta = \frac{11}{19}$ and θ is acute.

10. $\approx 73.0^\circ$

1. $\theta = \cos^{-1}\left(\frac{7}{24}\right)$ in degree mode.

Find θ (nearest tenth of a degree) if $\cos\theta = \frac{7}{24}$ and θ is acute.