Lesson 1.4 Practice: Finding Unknown Angles

School Launch · Trigonometry · Unit 1: Right-Triangle Trigonometry · Worksheet A

Scientific calculator

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

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

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

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

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

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

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

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

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

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

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