Lesson 12.1 Practice: Angles and Angle Relationships

School Launch · Pre-Algebra · Unit 12: Geometry · Worksheet A

No 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. Two angles are complementary. One measures $32°$. Find the other. EASY

2. Two angles are supplementary. One measures $140°$. Find the other. EASY

3. Two angles are supplementary. One measures $103°$. Find the other. EASY

4. Two supplementary angles measure $(3x + 12)°$ and $(3x + 60)°$. Find x and both angles. MEDIUM

5. Two complementary angles measure $(2x - 1)°$ and $(1x + 64)°$. Find x and both angles. MEDIUM

6. Two supplementary angles measure $(4x - 5)°$ and $(4x + 65)°$. Find x and both angles. MEDIUM

7. Vertical angles measure $(4x + 8)°$ and $(2x + 58)°$. Find x and the angle. MEDIUM

8. Two complementary angles measure $(2x + 2)°$ and $(1x + 16)°$. Find x and both angles. HARD

9. Vertical angles measure $(4x + 19)°$ and $(2x + 51)°$. Find x and the angle. HARD

10. Vertical angles measure $(4x + 9)°$ and $(3x + 29)°$. Find x and the angle. HARD