Lesson 2.6 Practice: Proving Statements About Segments and Angles

School Launch · Geometry · Unit 2: Points, Lines, Planes and Angles · Worksheet A

Calculator allowed

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 supplementary. One measures $148°$. Find the other. EASY

2. B is between A and C. $AB = 9$ and $BC = 21$. Find AC. EASY

3. Two angles are complementary. One measures $27°$. Find the other. EASY

4. B is between A and C. $AB = 5x - 6$, $BC = x - 4$ and $AC = 20$. Find x and AB. MEDIUM

5. Two complementary angles measure $(1x + 14)°$ and $(3x + 0)°$. Find x and both angles. MEDIUM

6. B is between A and C. $AB = x - 6$, $BC = x + 4$ and $AC = 14$. Find x and AB. MEDIUM

7. Vertical angles measure $(4x - 6)°$ and $(5x - 15)°$. Find x and the angle. MEDIUM

8. B is between A and C. $AB = 5x + 7$, $BC = 4x - 1$ and $AC = 42$. Find x and AB. HARD

9. Two supplementary angles measure $(1x - 4)°$ and $(2x + 136)°$. Find x and both angles. HARD

10. B is between A and C. $AB = 5x + 0$, $BC = 5x + 3$ and $AC = 103$. Find x and AB. HARD