Lesson 10.5 Practice: The Pythagorean Theorem, Distance and Midpoint

School Launch · Algebra I · Unit 10: Radicals · 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. Find the distance and the midpoint between $(0, 4)$ and $(-3, 0)$. EASY

2. Find the distance and the midpoint between $(-3, -1)$ and $(5, -16)$. EASY

3. Find the distance and the midpoint between $(-1, -6)$ and $(5, 2)$. EASY

4. Find the distance and the midpoint between $(-4, -2)$ and $(-8, -8)$. MEDIUM

5. Find the distance and the midpoint between $(8, 8)$ and $(9, 10)$. MEDIUM

6. Find the distance and the midpoint between $(2, 0)$ and $(-3, 4)$. MEDIUM

7. Find the distance and the midpoint between $(4, -3)$ and $(-3, -5)$. MEDIUM

8. A right triangle has legs 1 and 5 inches. Find the hypotenuse in simplest radical form. HARD

9. A right triangle has legs 2 and 5 inches. Find the hypotenuse in simplest radical form. HARD

10. A right triangle has legs 4 and 5 inches. Find the hypotenuse in simplest radical form. HARD