Lesson 3.4 Practice: Perpendicular Lines and Distance

School Launch · Geometry · Unit 3: Parallel and Perpendicular Lines · 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. Find the distance from the point $(5, 3)$ to the line $y = 2x + 5$ (exact form). EASY

2. Find the distance from the point $(-2, -6)$ to the line $y = 2x + 0$ (exact form). EASY

3. Find the distance from the point $(1, 1)$ to the line $y = x - 4$ (exact form). EASY

4. Find the distance from the point $(6, 2)$ to the line $y = -3x - 2$ (exact form). MEDIUM

5. Find the distance from the point $(6, 1)$ to the line $y = 3x + 0$ (exact form). MEDIUM

6. Find the distance from the point $(-2, -1)$ to the line $y = 3x - 3$ (exact form). MEDIUM

7. Find the distance from the point $(3, -1)$ to the line $y = x - 2$ (exact form). MEDIUM

8. Find the distance from the point $(2, -1)$ to the line $y = -3x - 1$ (exact form). HARD

9. Find the distance from the point $(-1, -2)$ to the line $y = -1x + 4$ (exact form). HARD

10. Find the distance from the point $(3, 6)$ to the line $y = 3x - 4$ (exact form). HARD