Lesson 11.3 Practice: Graphing Linear Equations

School Launch · Pre-Algebra · Unit 11: The Coordinate Plane and Graphing · 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. A table shows x: 0, 1, 2, 3 and y: -6, -5, -4, -3. Write the rule and find y when $x = 15$. EASY

2. Write the equation of the line with slope -1 and y-intercept 5. Then find y when $x = 3$. EASY

3. A table shows x: 0, 1, 2, 3 and y: 5, 8, 11, 14. Write the rule and find y when $x = 11$. EASY

4. Write, in slope-intercept form, the line through $(3, 0)$ and $(-2, 30)$. MEDIUM

5. A table shows x: 0, 1, 2, 3 and y: 5, 10, 15, 20. Write the rule and find y when $x = 10$. MEDIUM

6. Write, in slope-intercept form, the line through $(7, 0)$ and $(-7, -42)$. MEDIUM

7. A table shows x: 0, 1, 2, 3 and y: -7, -12, -17, -22. Write the rule and find y when $x = 9$. MEDIUM

8. Write, in slope-intercept form, the line through $(-7, 2)$ and $(-1, 0)$. HARD

9. A table shows x: 0, 1, 2, 3 and y: -1, 1, 3, 5. Write the rule and find y when $x = 14$. HARD

10. Write, in slope-intercept form, the line through $(-8, -7)$ and $(-1, -14)$. HARD