Lesson 6.1 Practice: Solving Systems by Graphing

School Launch · Algebra I · Unit 6: Systems of Equations and Inequalities · 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. Solve by graphing (then check algebraically): $y = x + 10$ and $y = -x$. EASY

2. Solve by graphing (then check algebraically): $y = \frac{1}{2}x - \frac{5}{2}$ and $y = -\frac{1}{2}x - \frac{11}{2}$. EASY

3. Solve by graphing (then check algebraically): $y = 2x + 3$ and $y = -\frac{1}{2}x + \frac{1}{2}$. EASY

4. Solve by graphing (then check algebraically): $y = -2x + 9$ and $y = \frac{1}{2}x + 4$. MEDIUM

5. Solve by graphing (then check algebraically): $y = -\frac{1}{2}x - 6$ and $y = -x - 8$. MEDIUM

6. Solve by graphing (then check algebraically): $y = 3x + 6$ and $y = -3x$. MEDIUM

7. Solve by graphing (then check algebraically): $y = 3x - 11$ and $y = x - 1$. MEDIUM

8. Solve by graphing (then check algebraically): $y = -x + 8$ and $y = x - 2$. HARD

9. Solve by graphing (then check algebraically): $y = -\frac{1}{2}x - 1$ and $y = -2x - 1$. HARD

10. Solve by graphing (then check algebraically): $y = -\frac{1}{2}x + \frac{3}{2}$ and $y = -x + 1$. HARD