Lesson 6.2 Practice: Solving Systems by Substitution

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 substitution: $y = -2x - 5$ and $-x + 4y = 25$. EASY

2. Solve by substitution: $y = -3x - 13$ and $-3x + 5y = 25$. EASY

3. Solve by substitution: $y = 2x - 10$ and $-x - 2y = 5$. EASY

4. Solve by substitution: $y = -2x + 8$ and $-5x + 2y = -2$. MEDIUM

5. Solve by substitution: $y = -x + 10$ and $-2x + y = -5$. MEDIUM

6. Solve by substitution: $y = -4x - 24$ and $-5x - y = 31$. MEDIUM

7. Solve by substitution: $y = -4x - 14$ and $-4x + 6y = 28$. MEDIUM

8. Solve by substitution: $y = -4x + 26$ and $4x - 5y = -10$. HARD

9. Solve by substitution: $y = -3x + 8$ and $-6x + 4y = -22$. HARD

10. Solve by substitution: $y = 4x + 5$ and $-x + y = -4$. HARD