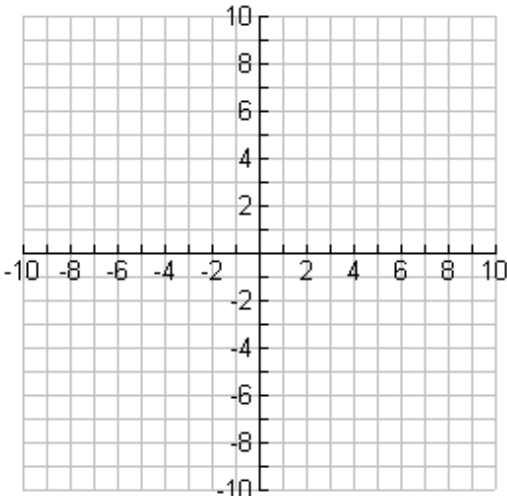
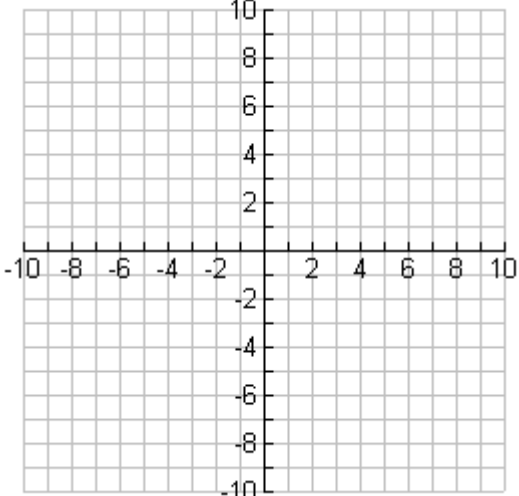
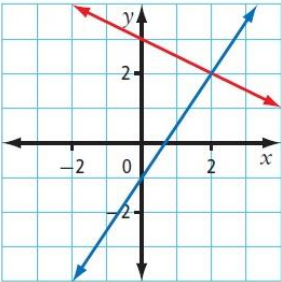
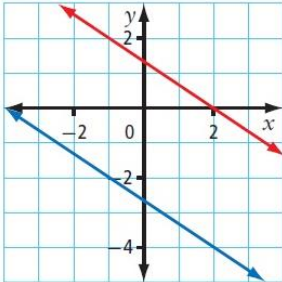
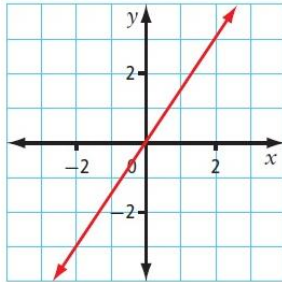


Name: _____

Unit Review: Solving Systems of Equations

| Part 1: Graphing | |
|---|---|
| <p>1) $y = \frac{-1}{2}x - 1$ $y = \frac{1}{4}x - 4$</p>  | <p>2) $y = -3x + 5$ $y = x - 3$</p>  |

| Part 2: | Intersecting Lines | Parallel Lines | Coincident (Same) Lines |
|---------------------|--|---|--|
| |  |  |  |
| Number of Solutions | | | |
| Slopes | | | |
| Y-Intercepts | | | |

| Part 3: Substitution | |
|---|--|
| <p>3)</p> $\begin{cases} y = 2x - 4 \\ y = -3x + 1 \end{cases}$ | <p>4)</p> $\begin{cases} y = 6x + 4 \\ y = 4x - 2 \end{cases}$ |

5)
 $x = -y + 5$
 $x = 2y - 4$

6)
 $y = 2x$
 $7x - y = 15$

Part 4: Elimination

7)
 $-4x + y = 6$
 $-5x - y = 21$

8)
 $-4x - 2y = -12$
 $4x + 8y = -24$

9)
 $-5x + y = -3$
 $3x - 8y = 24$

10)
 $5x + y = 9$
 $10x - 7y = -18$

Part 5: Applications

11) The sum of two numbers is 82. Their difference is 24. Write and solve a system of equations that describes this situation and find the two numbers.

Answer: The two numbers are _____ and _____.

12) Two groups of students order burritos and tacos at a local restaurant. One order of 3 burritos and 4 tacos cost \$11.33. The other order of 9 burritos and 5 tacos cost \$23.56. Write and solve a system of equations to find the cost of one burrito and the cost of one taco.

Answer: A burrito costs _____ and a taco costs _____.

13) The length of a garden is 5 times its width. Find the length and width if the perimeter is 72 feet.

Answer: The length of the garden is _____ and the width is _____.