

Lucky Six Systems

Name _____

WARM UP

Directions: Solve the following systems according to the specified methods. Show your work.

Solve each of the following systems of equations by the *elimination (add and subtract) method*:

1. $3x - 2y = 13$
 $3x + 4y = -17$

2. $7x + y = 13$
 $y = 2x - 0.5$

Solve each of the following systems of equations by the *substitution method*:

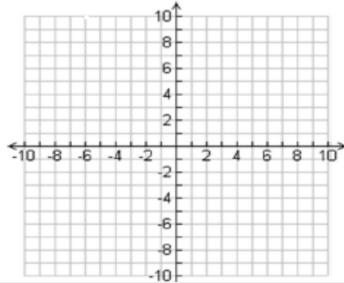
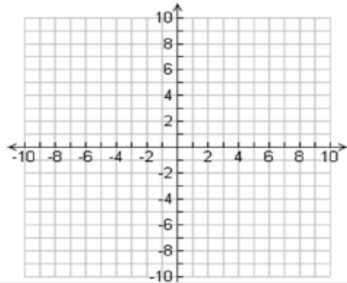
3. $x + 5y = 4$
 $x = 5y - 16$

4. $y = x - 7$
 $x + y = 3$

Solve each system of equations *graphically*:

5. $y = -x + 4$
 $y = x - 6$

6. $x + y = -1$
 $y = -2x + 3$



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 $3x + 4y = -17$

(1, -5)

2. $7x + y = 13$
 $y = 2x - 0.5$

(1.5, 2.5)

Solve each of the following systems of equations by the *substitution method*:

3. $x + 5y = 4$
 $x = 5y - 16$

(-6, 2)

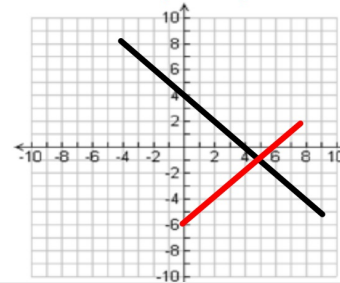
4. $y = x - 7$
 $x + y = 3$

(5, -2)

Solve each system of equations *graphically*:

5. $y = -x + 4$
 $y = x - 6$

(5, -1)



6. $x + y = -1$
 $y = -2x + 3$

(4, -5)

