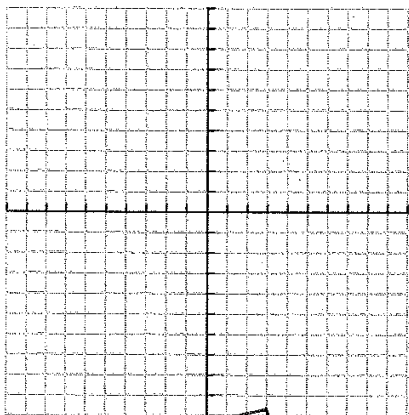


A2T Systems of Equations Review

Name Kg

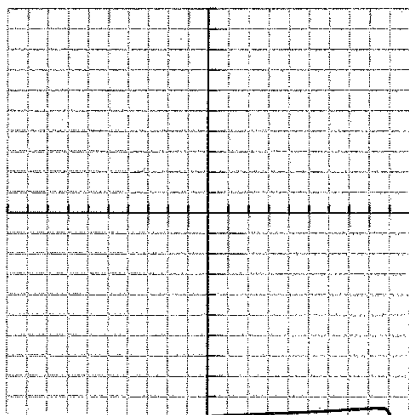
Solve each system by **Graphing**.

1) $2y - x = 2$
 $x - 2y = 8$



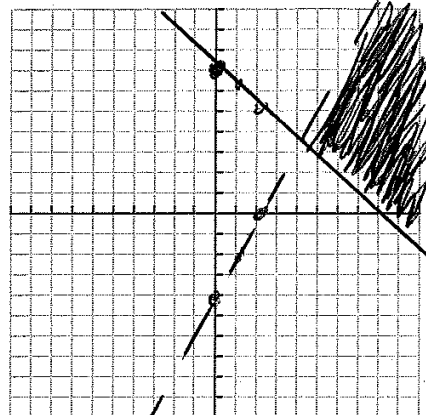
\emptyset

2) $y = \frac{1}{2}x + 1$
 $4x + 8y = -8$



$(-2, 0)$

3) $\begin{cases} y \geq -x + 7 \\ 2x - y > 4 \end{cases}$ $y < 2x - 4$



Solve each system by the **Substitution Method**.

4) $y = x + 2$
 $2x + y = 17$

$(5, 7)$

5) $3y - x = -9$
 $2y + 5x = 11$

$(3, -2)$

Solve each system by the **Elimination Method**.

6) $12x + 3y = 18$
 $5x + 3y = 4$

$(2, -2)$

7) $2x - 7y = 41$
 $6x + 5y = -7$

~~$(3, 5)$~~

$(3, -5)$

8) $\frac{1}{2}x + \frac{1}{3}y = -4$
 $\frac{1}{5}x + \frac{1}{5}y = -2$

$(-4, -6)$

Solve using any method you choose.

9) There are 812 students in a school. There are 36 more girls than boys. How many girls are there?

38 boys and 424 girls

10) The length of a rectangle is 5 more than twice the width. The perimeter is 130. What is the area?

900 units²

11) Rebecca has 45 coins, all nickels and dimes. The total value of the coins is \$3.60. How many of each coin does she have?

18 nickels and 27 dimes