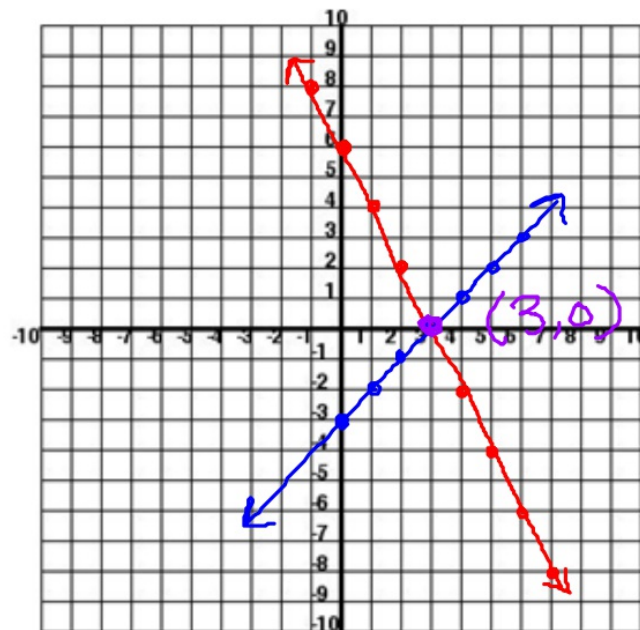


3.1 – 3.2 Quiz Prep
Algebra I B

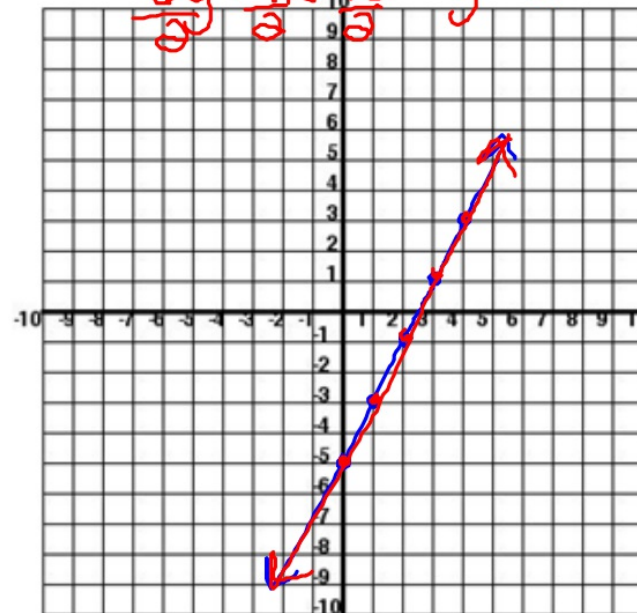
Name:
Hr:

Solve each system by **graphing**. Then tell whether the system has *one solution*, *many solutions*, or *no solution*.

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



2. $y = 2x - 5$
 $2y + 10 = 4x - 10$
 $\frac{2y}{2} = \frac{4x - 10}{2}$
 $y = 2x - 5$



1. (3, 0)

2. Many Solutions

Solve the following system by substitution. Then state whether the system has *one solution*, *many solutions*, or *no solution*.

$$\begin{aligned} 3. \quad & \underline{x} = y + 4 \\ & 4y = x - 1 \end{aligned}$$

$$4y = (y + 4) - 1$$

$$4y = y + 3$$
$$\begin{array}{r} -y \\ \hline -y \quad -y \end{array}$$

$$\frac{3y}{3} = \frac{3}{3}$$

$$y = 1 \checkmark$$

$$x = y + 4$$

$$x = 1 + 4$$

$$x = 5 \checkmark$$

3. _____

$$(5, 1)$$

7. **Tigers Game:** A group of 150 people (adults and children) went to watch the tigers in the play offs. The cost of admissions for adults was \$8, and for the children it was \$5. The group paid a total of \$1008 to get into the game. How many adults and how many children were apart of that group that went to Tigers Stadium and watched the game?

7. _____

$$-5(a + c = 150) \quad -5a - 5c = -750$$

$$8a + 5c = 1008$$

$$+ \quad 8a + \cancel{5c} = 1008$$

$$3a = \frac{258}{3}$$

$$\boxed{a = 86}$$

$$\begin{array}{r} 86 + c = 150 \\ -86 \quad -86 \\ \hline \boxed{c = 64} \end{array}$$