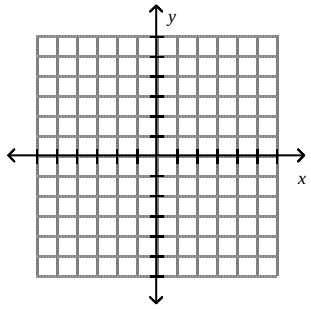
ECA Algebra Review (Geometry)
Day 5a

1) Graph $\begin{cases} y = 2x - 3 \\ y = -x + 3 \end{cases}$



2) Solve the system.

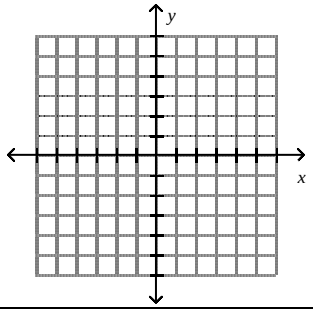
$$\begin{cases} 3y = -\frac{1}{2}x + 2 \\ y = -x + 9 \end{cases}$$

3) Solve the system.

$$\begin{cases} -10x - 3y = -18 \\ -7x - 8y = 11 \end{cases}$$

4) Solve the system of inequalities.

$$\begin{cases} y > x + 1 \\ -3x + y \geq -1 \end{cases}$$



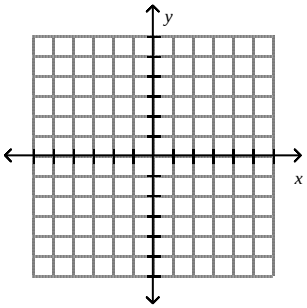
5) Without solving, decide whether the system has *one solution, no solution,* or *infinitely many solutions.* Explain.

$$\begin{cases} y = \frac{1}{4}x - 7 \\ 28 = x - 4y \end{cases}$$

6) Kendra owns a restaurant. She charges $1.50 for 2 eggs and one piece of toast and $.90 for one egg and one piece of toast. Write and solve a system of equations to determine how much she charges for each egg and each piece of toast.

ECA Algebra Review (Geometry)
Day 5b

1) Graph $\begin{cases} y = x + 4 \\ y - 4 = x \end{cases}$



2) Solve the system.

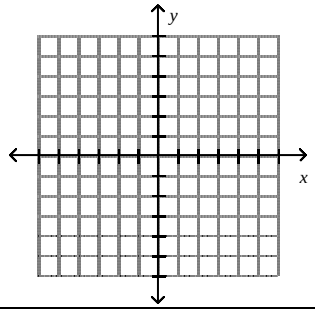
$$\begin{cases} 3x + 2y = 7 \\ y = -3x + 11 \end{cases}$$

3) Solve the system.

$$\begin{cases} 5x - 5y = -25 \\ -2x + 10y = 42 \end{cases}$$

4) Solve the system of inequalities.

$$\begin{cases} y \le 2x + 1 \\ -x + y < 2 \end{cases}$$



5) Without solving, decide whether the system has *one solution, no solution,* or *infinitely many solutions.* Explain.

$$\begin{cases} y = -3x + 4 \\ y = 3x + 8 \end{cases}$$

6) Niki has 8 coins worth $1.40. Some of the coins are nickels and some are quarters. Write and solve a system of equations to determine how many of each coin Niki has.