

# Algebra 1 Quiz 10.25.13

Version B

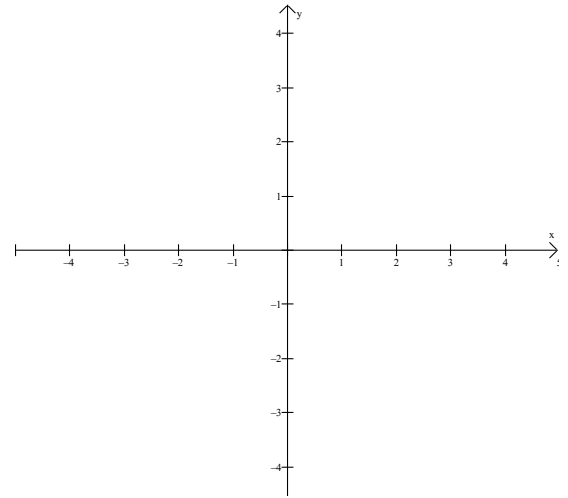
Systems expert \_\_\_\_\_

period \_\_\_\_\_

1) Simplify:  $5(2x + 3) - 4(x - 5)$

2) Graph the system linear inequalities

$$y \geq x - 2$$
$$y < 1$$



3) Solve the system of linear equations

$$-3x + 4y = 0$$
$$5x - 12y = -16$$

4) Solve and graph on a number line

$$\frac{1}{2}x - \frac{2}{5} > 6$$

5) **Perimeter Question:** A rectangle garden has a length of  $2x + 4$  and a width of  $x - 2$  and a perimeter of 40 feet. What is the length and width of the garden to the nearest foot?

**Bonus!!** Solve the system

$$3x + y = 4$$
$$4y = -12x + 16$$