

Name \_\_\_\_\_

- Write as neatly as you can!
- No calculators are allowed.
- You must show your work to obtain full credit.

1. (*5 points*) Determine whether the four points  $(0, 12)$ ,  $(1, 9)$ ,  $(4, 0)$  and  $(-1, 15)$  are on the same line.

**Hint:** use the first two points to come up with the equation for a line, and see if the other two points satisfy the equation.

2. (5 points) Find all values of  $x$  that satisfy the inequality

$$0.3x + 2 \geq \frac{2}{5}x - 5$$

3. (1 point, extra credit) Suppose Ann, Bea, and Caitlin split a \$12 pizza, but they don't finish it. If Ann eats  $1/8$  of the pizza, Bea eats  $1/4$  and Caitlin eats  $3/8$ , how should they split the cost of the pizza so that what everyone pays is proportional to what they ate?