Name:

Date:

Lesson 5.1.2 Homework

* **5-18.** Solve each equation below.
	1. 
	2. 

**5-19.** Fisher thinks that any two lines must have a point of intersection. Is he correct? If so, explain how you know. If not, produce a **counterexample** and explain your reasoning. (In this case, a counterexample would be an example of two lines that do not have a point of intersection.)

**5-20.** In the last election, candidate B received twice as many votes as candidate A. Candidate C received 15,000 fewer votes than candidate A. If a total of 109,000 votes were cast, how many votes did candidate B receive?

**5-21.** Jamila wants to play a game called “Guess My Line.” She gives you the following hint: “Two points on my line are (1, 1) and (2, 4).”

* 1. What is the growth rate of her line? A graph of the line may help.
	2. What is the *y*-intercept of her line?
	3. What is the equation of her line?

**5-22.** Solve each of the following equations. Be sure to show your work carefully and check your answers.

* 1. 2(3*x* − 4) = 22
	2. 6(2*x* − 5) = −(*x* + 4)
	3. 2 − (*y* + 2) = 3*y*
	4. 3 + 4(*x* + 1) = 159