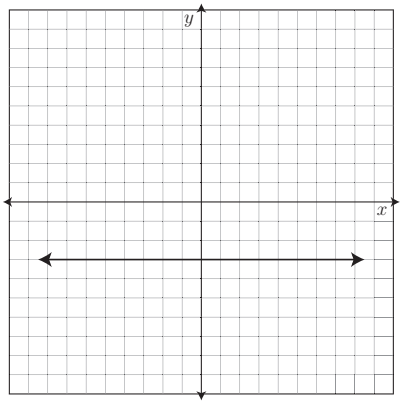
Review Problems Name:_____

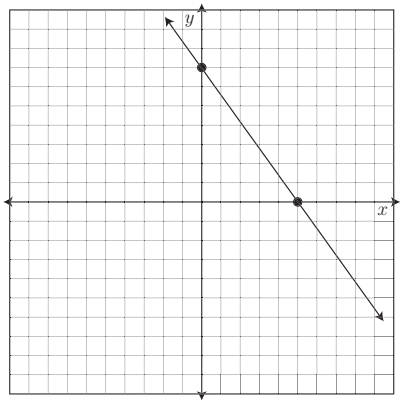
Show all relevant work!

1. Write the equations of the lines graphed below.

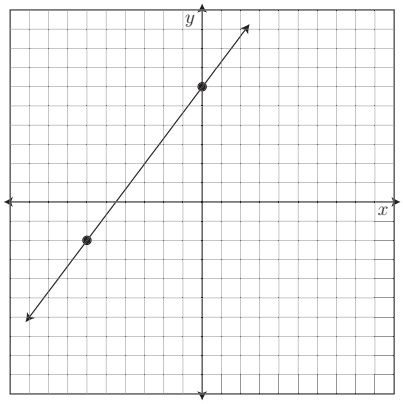
(a)



(b)



(c)



2. Graph the line perpendicular to 1(b) above that contains the point $(-2, 3)$.

3. The table for a linear equation is started below.
(a) Fill in the rest of the table.

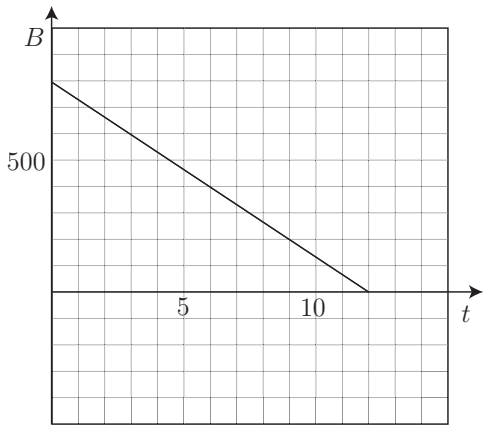
x			6	9	
y			9	4	

(b) Write the equation of the line for this table.

4. Complete this table for the line through $(-2, 5)$ that is perpendicular to the line in 3.

x			-2		
y			5		

5. The balance of Clarence's bank account is graphed below. If B measures his balance in dollars and t is time in months, answer the following questions.



(a) How fast is Clarence spending money?

(b) Write an equation for the balance of Clarence's account over time.

(c) What is the B intercept and what does it tell you?

(d) What is the t intercept and what does it tell you?

(e) What happens after the t intercept (give a contextual interpretation).

6. Juan owns a propane-gas barbecue grill with a tank that holds 5 gallons of propane. He always sets the temperature at 350°F, which uses 0.125 gallons of propane per hour. Let g be the number of gallons of propane that remain in the tank after t hours of cooking since the tank was filled. Write an equation for g in terms of t.

7. My garbage company charges \$12 to pick up one can of garbage and \$28 to pick up 3 cans.

(a) What is the company's per can charge?

(b) Write a linear formula for the cost, C, of having n cans of garbage picked up.

(c) What is the C intercept and what does it mean in this context?