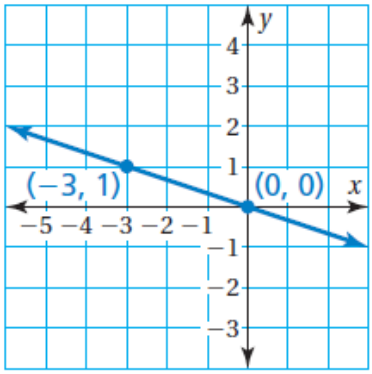
Chapter 3 Review Worksheet

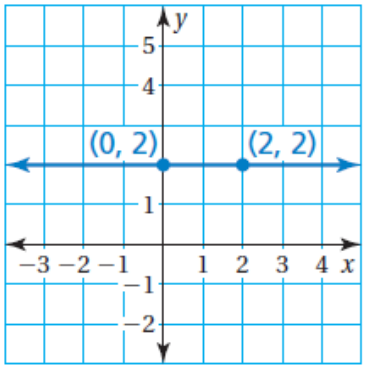
Name: _____

Write an equation for the line in slope-intercept form.

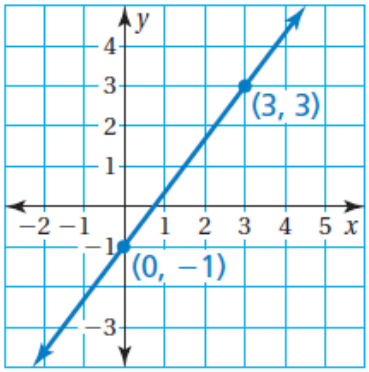
1. _____



2. _____



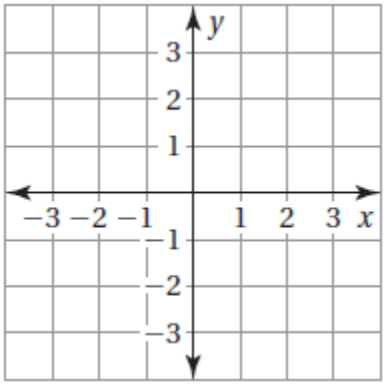
3. _____



Write an equation of the line with the given slope that passes through the given point.

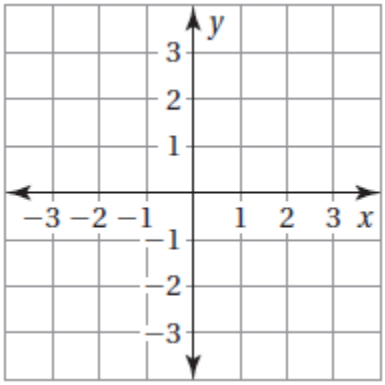
4. m = -1 point: (-2,-2)

_____



5. m = $-\frac{1}{2}$ point: (4, -1)

_____



6. m = 2/3 point: (3, 1)

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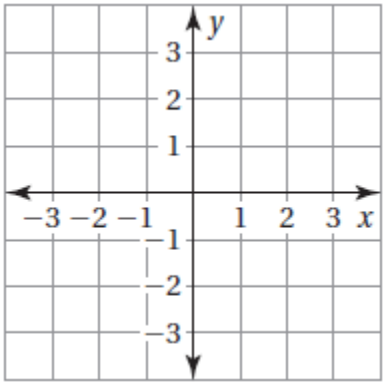

Write an equation of the line that passes through the two points.

7. (1, 1) & (3, -3)

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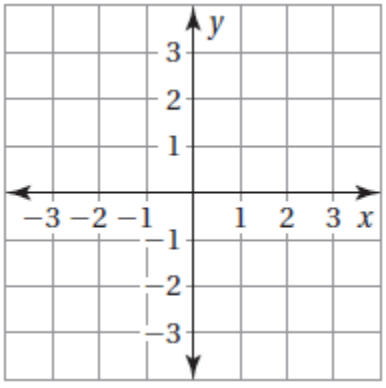

8. (-4, 1) & (4, 3)

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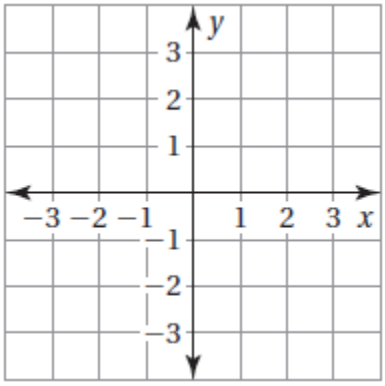

9. (-2, 4) & (-1, 1)

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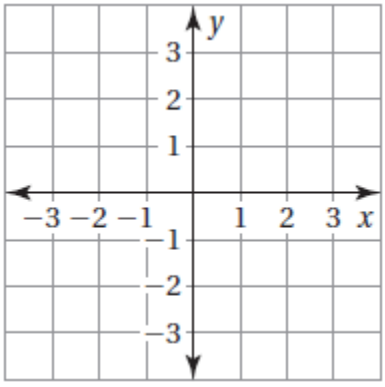


10. **You are saving money for a mountain bike. You have already saved $40 and earn $20 per lawn that you mow.**
a) Write an equation that represents the amount of money you have y (in dollars) after x lawns mowed.

b) The mountain bike you want is $160. How many lawns do you need to mow to earn enough money to buy the bike?

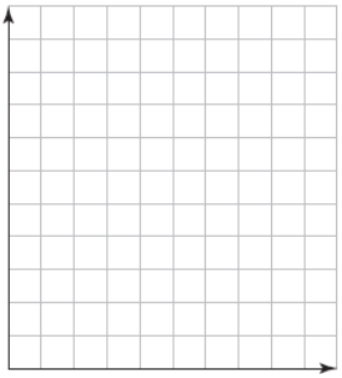
11. Yo**u are planning to go to a carnival. There is a $5 admission fee and each ride costs $2.**
a) Write an equation that represents the amount of money you spend y (in dollars) after going on x rides.

b) How much would it cost to go on 12 rides?

12. **You are draining an aquarium. It drains at a rate of 6 liters per minute. After 2 minutes, there are 36 liters remaining.**
a) How many liters were in the aquarium at the beginning?

b) Write an equation that represents the amount y(in liters) of water x minutes after you begin draining it.

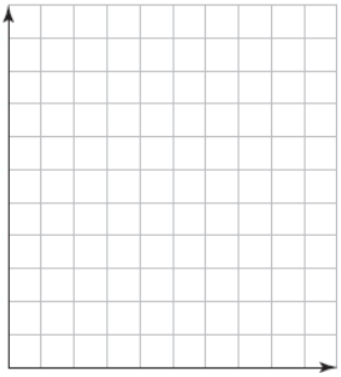
b) How long does it take to drain the aquarium?



13. **You buy a savings bond. It increases the same value every year. After 2 years, the savings bond is worth $70. After 5 years, the savings bond is worth $100.**
a) How much is the savings bond increasing each year?

b) What was the original value of the savings bond?

c) Write an equation that represents the value y(in dollars) of the savings bond x years after you bought it.



14. **To rent a pontoon you are charged a flat fee plus a daily rate of $100. After 4 days the total cost is $700.**

a) What was the flat fee?

b) Write an equation that represents the total cost y after x days.