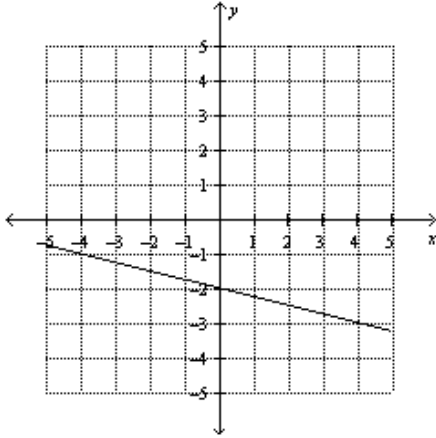Ch 6 Review   Name _____
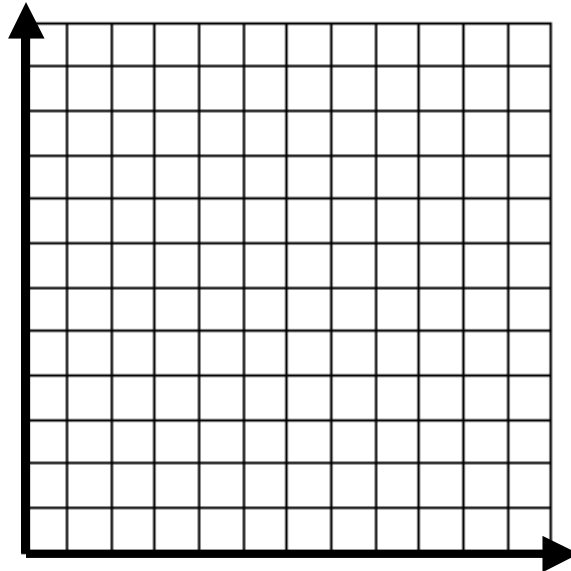Graphing Linear Functions   Block _____

1. Use the graph to answer the following questions:

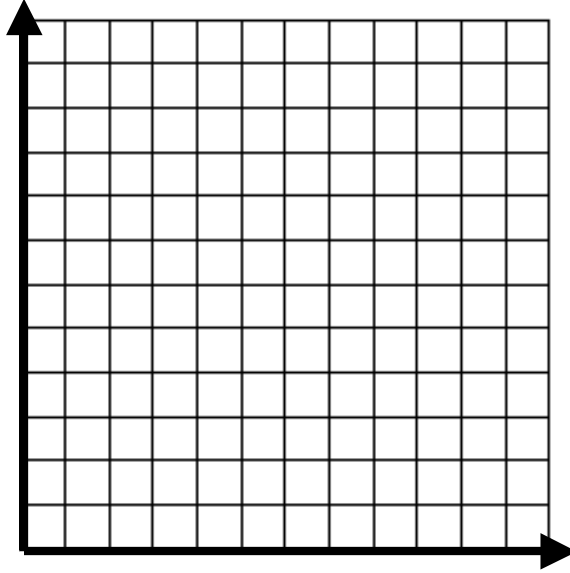

        1. Identify the y-intercept: _____

        2. Identify the slope: _____

2. You have $10 in your savings account. Each week you add $15 to savings for a new phone. Draw a graph showing the amount of money that's in savings over several weeks.

3. You have $100 saved. Each week you spend $20. Draw a graph showing the amount of money you have over several weeks.
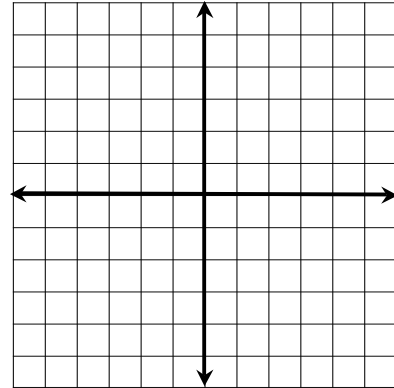
4. Find the y-intercept of the equation 5x - 7y = -70.

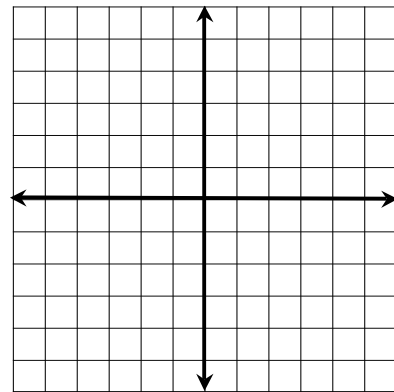5. Find the x-intercept of the equation -8x + 6y = 24.

6. Graph the linear equation. Write down the information used to graph.
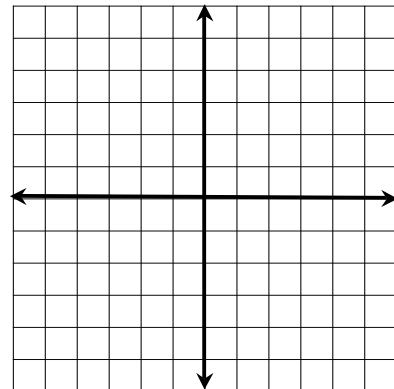
$$y = -\frac{5}{3}x + 4$$

7. Graph the linear equation. Write down the information used to graph.
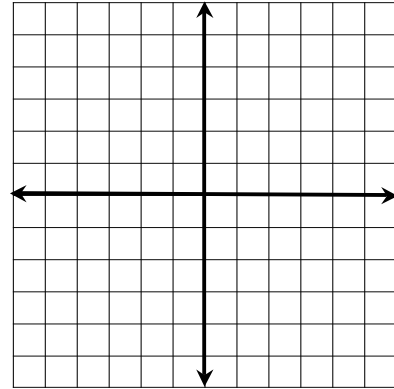
$$y - 2 = \frac{3}{4}(x + 1)$$

8. Graph the linear equation. Write down the information used to graph.
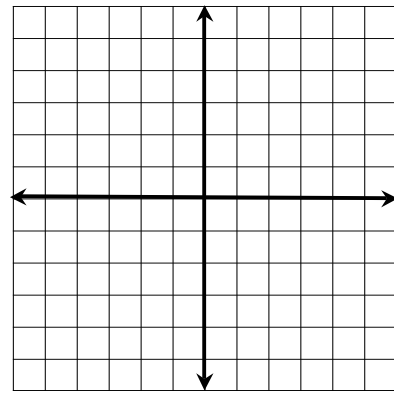
$$9x - 12y = 36$$

9. Graph the linear equation. Write down the information used to graph.

$y = -3$

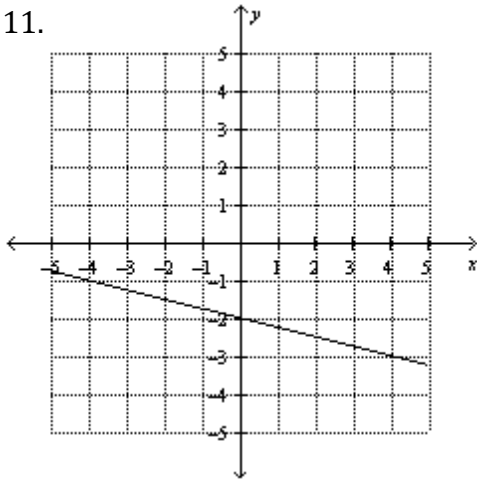10. Graph the linear equation. Write down the information used to graph.

$x = 2$

11.

a. Write the equation of the line in slope-intercept form.

b. Rewrite the equation in standard form using integers.

12. A line passes through two points (7, 2) and (5, -6).
Write an equation for the line in **point-slope form.** Then rewrite the equation in **slope-intercept** form.

Point-Slope Form: _____

Slope-Intercept Form: _____

13. A line passes through two points (-4,-3) and (-2,1).
Write an equation for the line in **point-slope form.** Then rewrite the equation in **slope-intercept** form.

Point-Slope Form: _____

Slope-Intercept Form: _____

14. Rewrite the equation 4x + 5y = 40 in slope-intercept form.

15. Rewrite the equation 3 x – 6y = 12 in slope-intercept form.

16. Rewrite the equation $y = -\dfrac{4}{3}x + 7$ in standard form using integers.

17. Katie opens a savings account with $200 and deposits $55 each month thereafter. Write a linear function that models monthly balance.

18. Josh has $200 and spends $5 every week on snacks. Write a linear function that models the amount of money he has.

19. The theater charges $3 per child and $5 per adult for each show. Write an equation in standard form relating the amount of children and adults that can go to the theater if you spend $80.

20. The food truck charges $2 for each taco and $3 for each burrito. Write an equation in standard form relating the number of tacos and burritos you can buy if you spend $45.