

1. Find the **slope** given the two points.

A. (5,3) and (10,8)

B. (-3,-10) and (-1,-1)

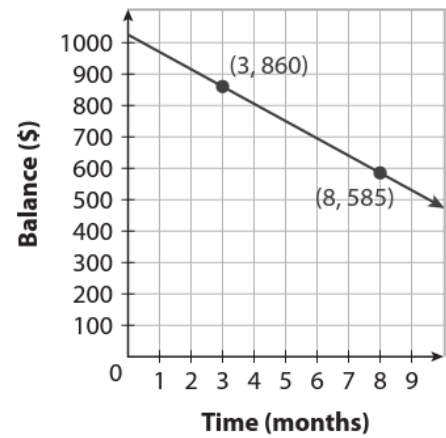
C. (-3,5) and (7,5)

D. (11,-4) and (11,8)

2. Find the **slope** and explain its meaning.

Slope: _____

Meaning: _____



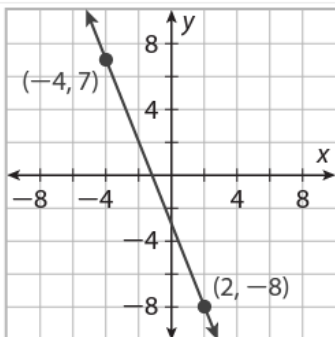
3. Find the **x- and y-intercepts**.

A. $4x - 6y = 24$

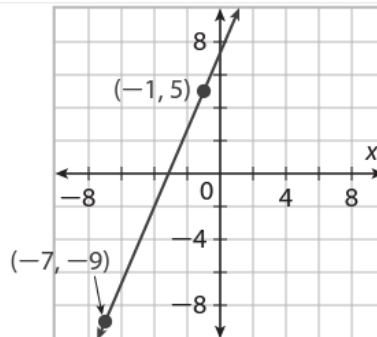
B. $-3x + 9y = 18$

4. Find the **slope** of each line.

A.



B.



5. Identify the **slope** and **y-intercept**. Then, use the slope and y-intercept to **graph** the line.

A. $y = -\frac{2}{3}x + 5$

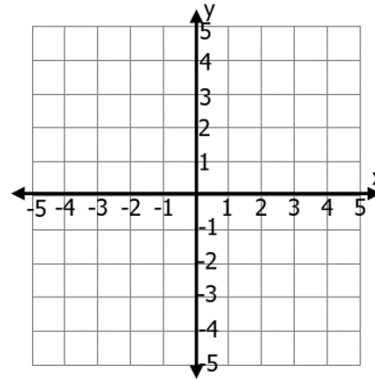
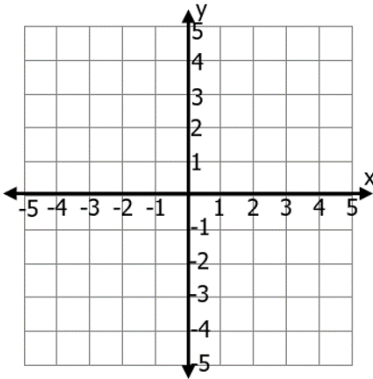
B. $y = \frac{1}{3}x$

Slope:

Y-Int:

Slope:

Y-Int:



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

6. Slope: $-\frac{2}{5}$ Y-int: (0, 11)

7. Slope: -3 Point: $(-1, 4)$

8. Points: $(-5, 3)$ and $(-2, -6)$

Write the equation of the line in point-slope form.

9. Slope: -7 Point: $(-3, 5)$

10. Points: $(2, 2)$ and $(0, -3)$

Write the equation of the line in standard form.

11. Slope: 2 Point: $(-3, 5)$

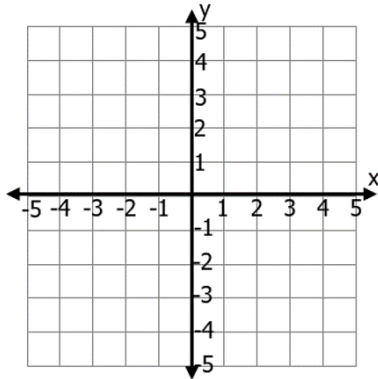
12. Points: $(-6, -1)$ and $(-2, 15)$

Graph the equations in standard form by finding the x- and y-intercepts.

13. $-3x + 5y = 15$

X-int: _____

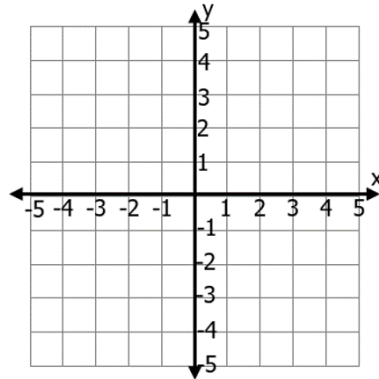
Y-int: _____



14. $2x - 4y = 8$

X-int: _____

Y-int: _____



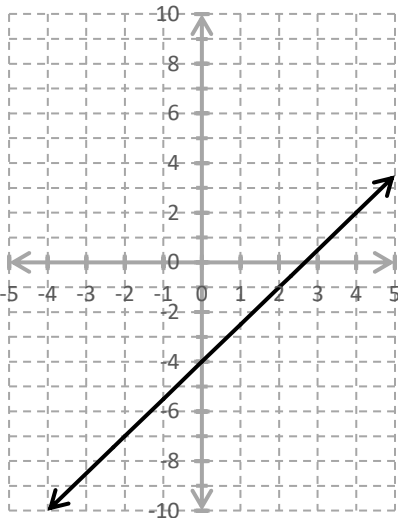
Tell which form each equation is in.

15. $y - 5 = -3(x + 2)$

16. $y = -\frac{6}{5}x + 7$

17. $-8x + 7y = 56$

18. Find the value of $f(x) = \frac{3}{2}x - 4$ when $x = 2$ using the given graph.

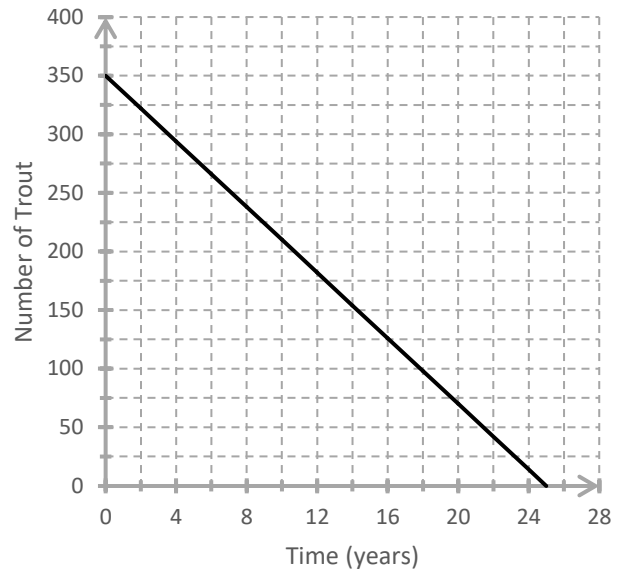


19. Jill earns \$8 per hour babysitting for the Reynolds family. She makes \$7 an hour plus \$5 for travel from the Jones family. Write an equation to find the number of hours when Jill will earn the same amount for both families.

20. A lake was stocked with 350 trout. Each year, the population decreases by 14. The population of trout in the lake after x years is represented by the function $f(x) = 350 - 14x$. What does each intercept represent?

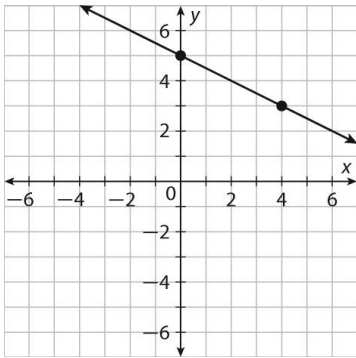
X-int:

Y-Int:

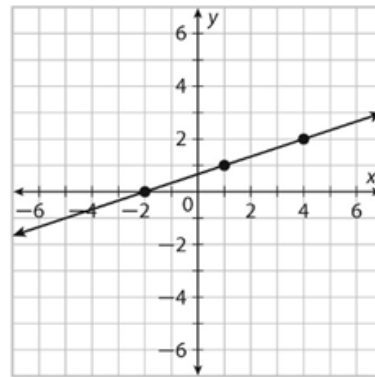


21. Write the equation of the line in **slope-intercept** form.

a.



b.



22. The cost of producing x chairs is $p = 46x + 100$. The chairs cost \$50 a piece, which can be represented by $c = 50x$. For how many chairs does the cost of production equal the sales?

23. Graph **the point-slope form** equations below:

a. $y - 5 = -\frac{4}{3}(x + 2)$

b. $y + 1 = 2(x - 4)$

