

1. Find the rate of change & explain what it means.

Bike Riding Distance

Time (minutes)	Distance Traveled (ft)
1	1120
2	2240
3	3360
4	4480

2. Find the slope of the line that passes through the given points.

$$(3, -20) \text{ \& } (5, 8)$$

3. Find the slope of the line that passes through the given points.

$$(9, 3) \text{ \& } (19, -17)$$

4. Find the slope of the line that passes through the given points.

$$(12, -18) \text{ \& } (-15, -18)$$

5. Find the slope of the line that passes through the given points.

$$(13, 2) \text{ \& } (1, 5)$$

6. Tell whether the equation is direct variation. If it is, find the constant of variation.

$$y = \frac{2}{3}x$$

7. Tell whether the equation is direct variation.
If it is, find the constant of variation.

$$4x + 2 = 12y + 2$$

8. Tell whether the equation is direct variation.
If it is, find the constant of variation.

$$6y + 7 = 2x + 4$$

9. Find the slope & y-intercept of the graph of the equation.

$$y = -\frac{2}{7}x + 9$$

10. Find the slope & y-intercept of the graph of the equation.

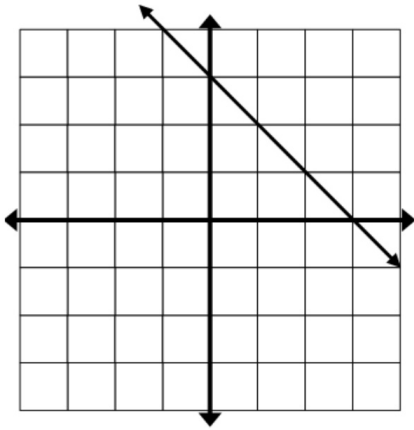
$$6x + 7y = 13$$

11. Find the slope & y-intercept of the graph of the equation.

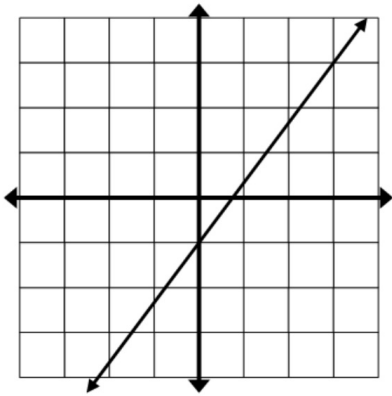
$$3y = -9x - 12$$

12. Heather's weekly pay is directly proportional to the number of hours she works at the record store. Her pay is \$174 for 24 hours of work. Find the amount of pay for 40 hours of work.

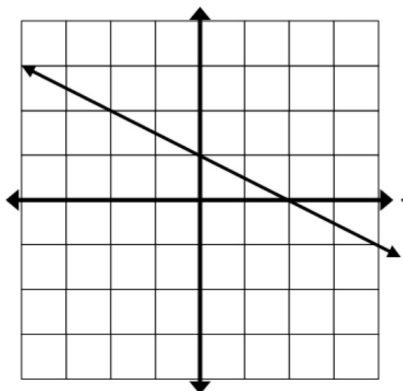
13. Write an equation in slope-intercept form for the line.



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



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



16. Write an equation in slope-intercept form for the line through the given point with the given slope.

$$(1, 1) \quad m = 4$$

17. Write an equation in slope-intercept form for the line through the given point with the given slope.

$$(3, 2) \quad m = -\frac{2}{3}$$

18. Write an equation in slope-intercept form for the line through the given points.

$$(2, 8) \text{ and } (1, 3)$$

19. Write an equation in slope-intercept form for the line through the given points.

$$(9, -1) \text{ and } (-3, 7)$$

20. Write an equation in slope-intercept form for the line through the given points.

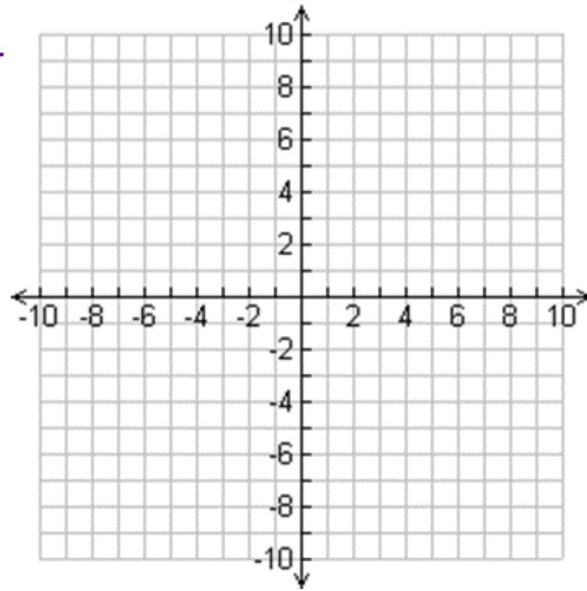
$$(-7, -4) \text{ and } (-5, -6)$$

21. Write an equation in slope-intercept form for the line through the given points.

$$(7, -3) \text{ and } (6, -8)$$

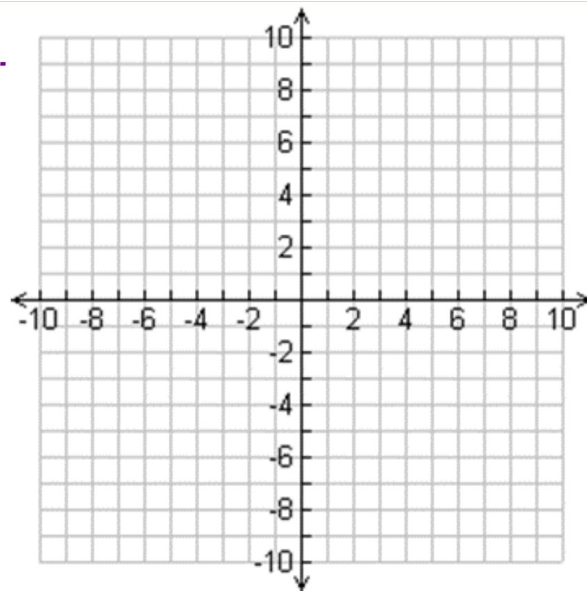
22. Graph the equation.

$$y = 3x - 4$$



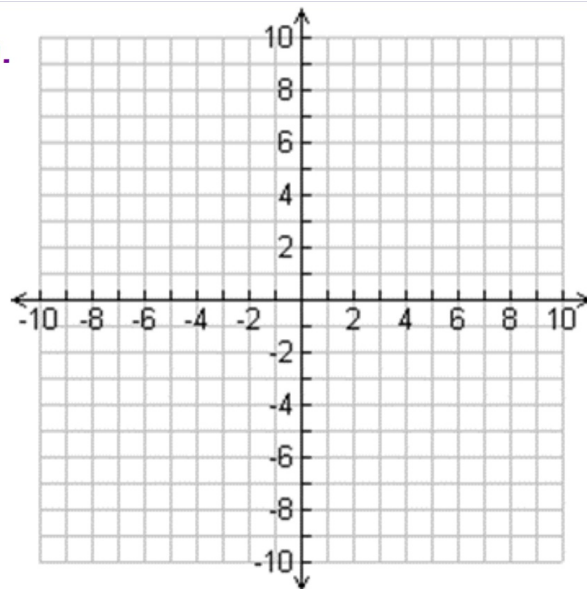
23. Graph the equation.

$$y = -\frac{3}{4}x + 6$$



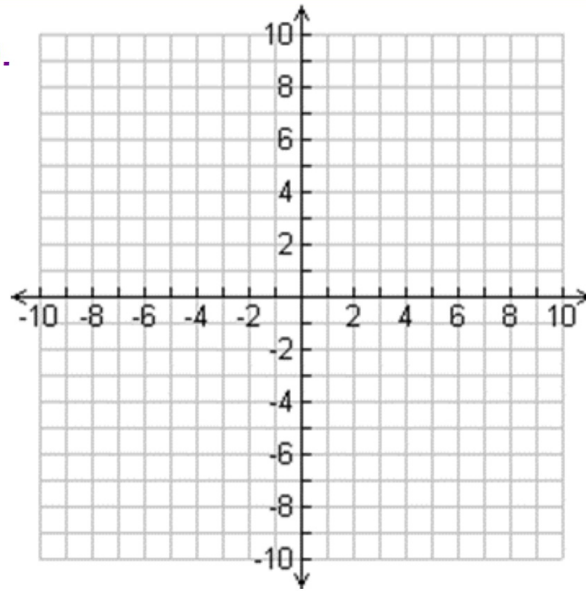
24. Graph the equation.

$$y = 5$$



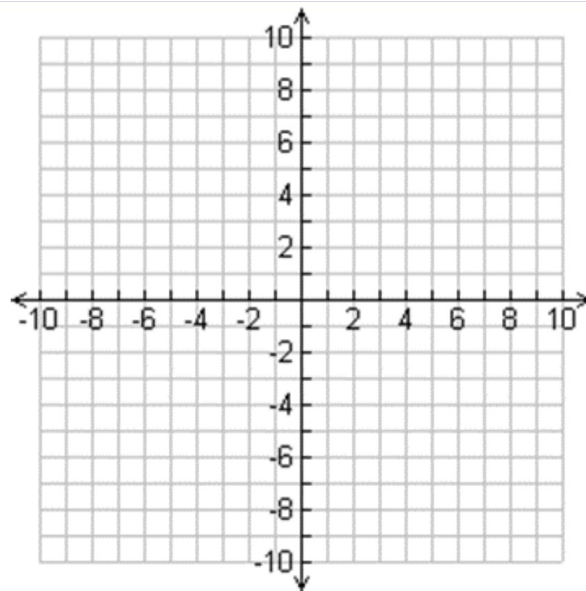
25. Graph the equation.

$$y - 6 = \frac{1}{2}(x - 4)$$



26. Graph the equation.

$$y + 2 = -3(x - 3)$$



27. Graph the equation.

$$8x + 4y = 16$$

