

Find the intercepts of each line.

1. $5x + 6y = 30$

2. $2x - 3y = 24$

Write in slope-intercept form

3. $3y = 15 - 6x$

4. $2x - 5y = -6$

Is the line Vertical or Horizontal?

5. $X = 21$

6. $Y = -2$

7. Determine whether the data set represents a linear function. If the data is linear, state the slope of the line containing the points.

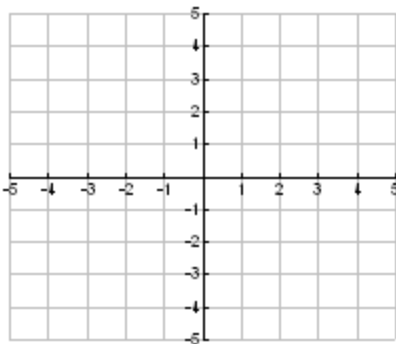
A.

x	-2	1	4	7
f(x)	-10	-6	4	13

B.

x	-2	-1	0	1
f(x)	10	7	4	1

8. Graph the line with slope $-\frac{1}{3}$ and passing through the point $(-3, 2)$.

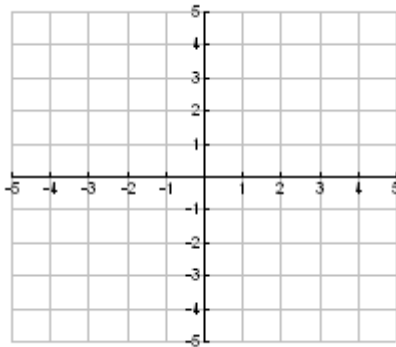


Then write the equation of the line in slope-intercept form.

Slope-intercept form _____

9. Find the x-intercept and the y-intercept of the line and graph the line.

$2x - 3y = 6$ x-intercept _____ y-intercept _____



Then write $2x - 3y = 6$ in slope-intercept form.

Slope-intercept form _____

9. Find the slope of the line through $(-4, 12)$ and $(-3, 8)$.

Problems 13-18, write the equation of:

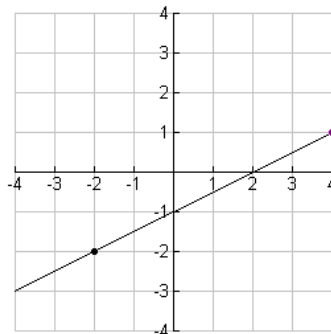
13. Write an equation of a line with slope 5 and x-intercept $\frac{4}{5}$ in **slope-intercept form**.

14. Write an equation of a line with slope $-\frac{3}{5}$ and passing through $(-5, 1)$ in **point-slope form**.

15. Write an equation of a line in **slope-intercept form**.

X	-2	0	5	6
f(x)	14	15	17.5	18

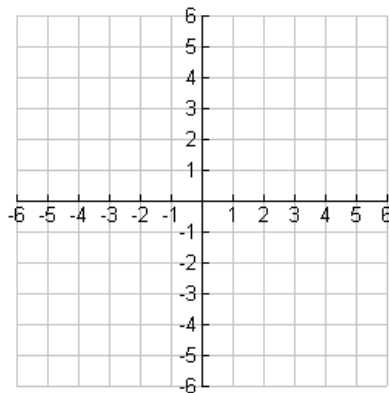
16. Write an equation of a line in **slope-intercept form**.



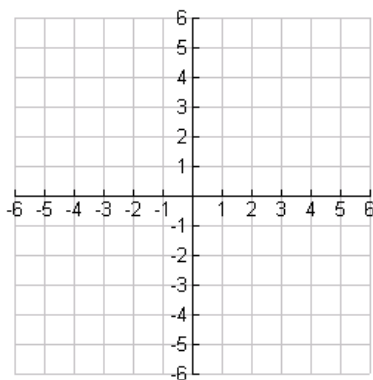
17. a line parallel to $y = 3x + 5$ and through $(-6, 7)$ in **point-slope form**.

18. Write an equation of a line perpendicular to $y = -\frac{5}{6}x - 2$ and through $(-12, 10)$ in point-slope form.

19. Graph $3x - 4y \leq 8$



20. Graph $y = 2x + 1$



21. Graph a perpendicular line to $y = -\frac{3}{4}x + 2$ and through $(6, -4)$

