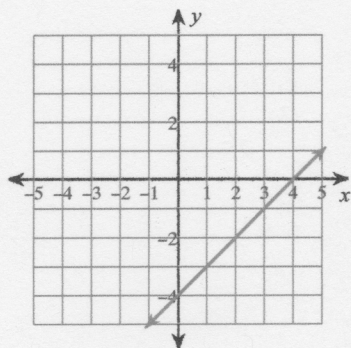


Summer Work

Date _____ Period _____

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

1)



Write the slope-intercept form of the equation of each line given the slope and y-intercept.

2) Slope = -1 , y-intercept = -2

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

3) $3x - 4y = -32$

Write the slope-intercept form of the equation of the line through the given point with the given slope.

4) through: $(-4, 2)$, slope = $-\frac{3}{2}$

Write the slope-intercept form of the equation of the line through the given points.

5) through: $(-3, 1)$ and $(0, 4)$

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

6) through: $(-2, 4)$, parallel to $y = -\frac{5}{2}x + 1$

Write the point-slope form of the equation of the line through the given point with the given slope.

7) through: $(1, -3)$, slope $= -7$

Write the point-slope form of the equation of the line through the given points.

8) through: $(0, 0)$ and $(-3, 4)$

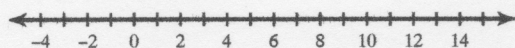
Solve each equation.

9) $-2|x - 3| = -4$

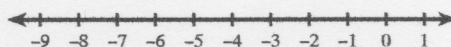
10) $|2n - 9| + 9 = 18$

Solve each inequality and graph its solution.

11) $\frac{|-5 + p|}{8} < 1$

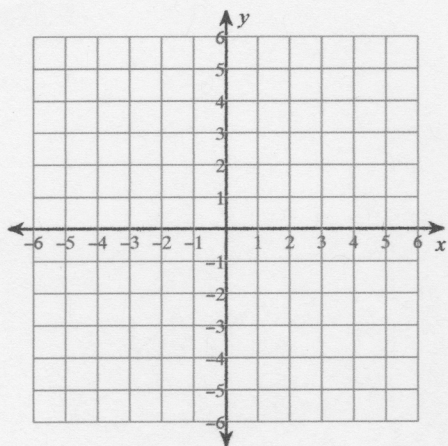


12) $-2m \leq 3 + m$

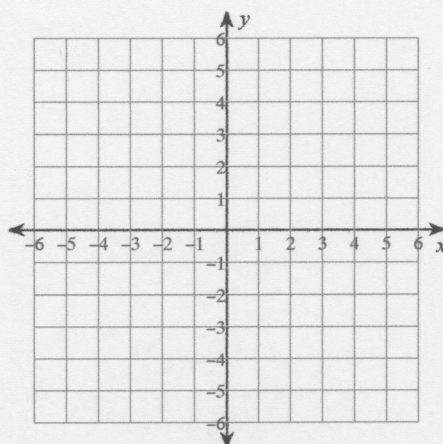


Sketch the graph of each line.

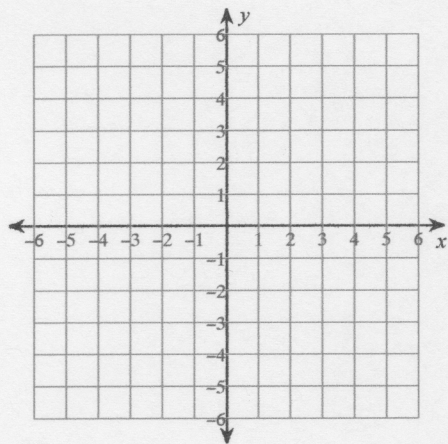
13) x -intercept = 4, y -intercept = 3



14) $y = -\frac{2}{5}x - 4$



15) $2x + y = -5$



Evaluate each function.

16) $f(x) = 3x + 3$; Find $f(-6)$

17) $p(x) = \left| -\frac{1}{2}x \right|$; Find $p\left(-\frac{10}{9}\right)$

Solve each equation by factoring.

18) $x^2 - 13x + 42 = 0$

19) $v^2 + 5v - 6 = 0$

20) $6m^2 - 31m + 28 = 0$

21) $3m^2 - 26m + 35 = 0$

22) $n^2 = -12n - 35$

23) $a^2 + 3a = 10$

Solve each equation by taking square roots.

24) $n^2 = 81$

25) $n^2 - 9 = -8$

26) $p^2 + 6 = 22$

27) $-3 - 2b^2 = -21$

Solve each equation with the quadratic formula.

28) $11m^2 + 8m - 21 = 0$

29) $12n^2 - 11n - 23 = -5$

30) $3r^2 - 12r - 1 = -8r$