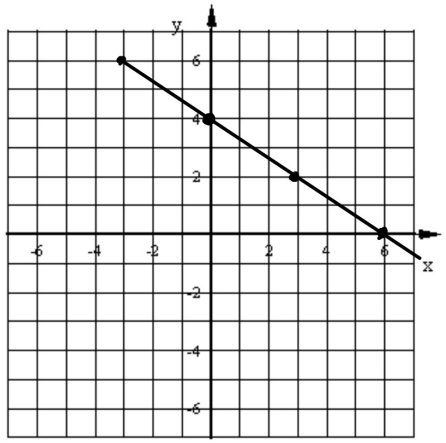
Graph this line by changing it to Slope-intercept Form first.

$10x + 15y = 60$ $-10x$ $-10x$ / 15 15 15

$y = \frac{-2}{3}x + 4$



At the ballpark one family buys 4 hot dogs and 5 drinks for $27.25. Model this situation with an equation.

$4h + 5d = 27.25$

h = hot dog
d = drinks

This equation is written in Standard Form because the variables are on the same side.

I've already read 240 pages of my book but then I decide to read 15 pages each night before bed.

Write an equation to model how many total pages I've read.

$P = 240 + 15n$

P = # of Pages
n = # of nights

This equation is in slope intercept form because there is an:

Initial amount 240 pages which represents the y-intercept

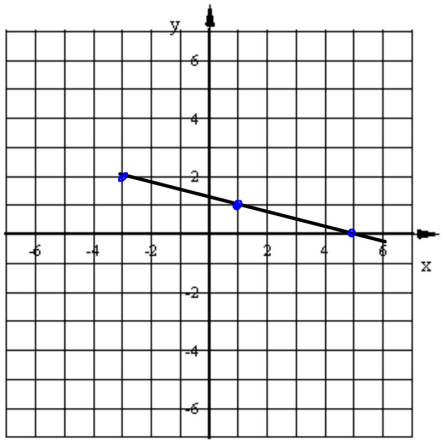
a rate of change 15 pages/night which represents the slope.

Graph these lines.

1. $y - 2 = -\frac{1}{4}(x + 3)$

2. $x = -4$

3. $y = 1$



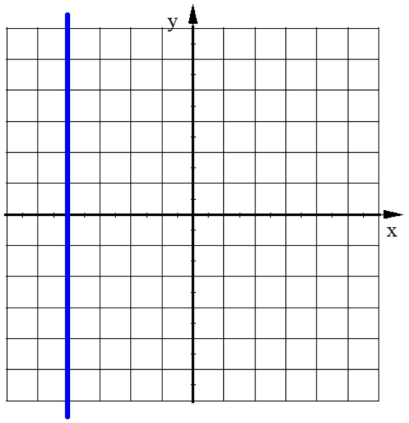
$y-y_1$ $x-x_1$

1. $y-2=-\frac{1}{4}(x+3)$

$-\frac{1}{4}\times 3(-\frac{1}{4})$

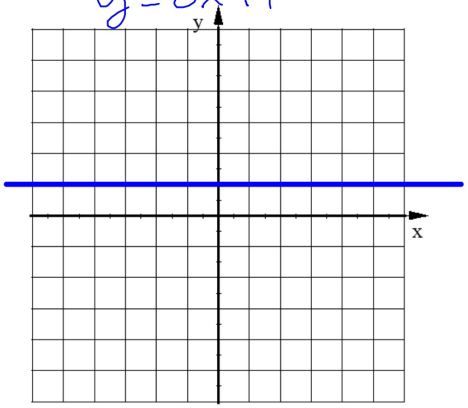
$(-3,2)$

2. $x=-4$



3. $y=1$

$y=0x+1$



Match the equation with its graph

III

62. $y=x+5$

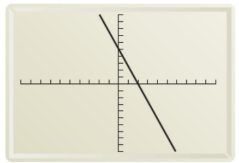
I

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

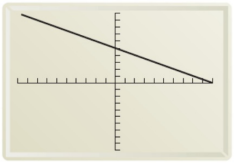
II

64. $y=-\frac{1}{2}x+5$

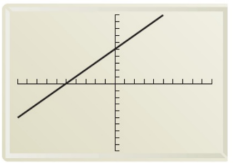
I.



II.



III.

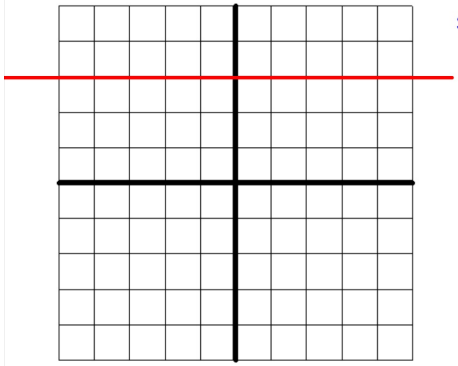


Write the equation of the line that passes through this pair of points. Give your answer in Slope-Intercept Form

(4, 1) and (-7, 1)

$y = 1$

What is true about every point on this line?



They all have the same y-coordinate

What is the slope? 0

What is the y-intercept? 3

What is the equation?

$y = 3$

The equation of every horizontal line:

y = #

This number is the y-intercept or the y-coordinate of any point on the line.