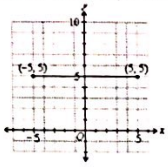
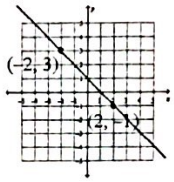
Write the equation of the line



Slope = 0
y-int = 5

$y = 5$

Write the equation of the line



Slope = −1
y-int = 1

$y = -x + 1$

The position (in floor levels) y of an elevator after x minutes is given by the equation:

$$y = 4x + 1$$

1. What is the real-world meaning of the 4?
2. What is the real-world meaning of the 1?

4 floors per min
Starting @ Floor 1

Solve the equation for y and state the slope and y-intercept of the line

$6x + 2y = -4$

$6x + 2y = -4$
$-6x \qquad -6x$

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

$y = -2 - 3x$

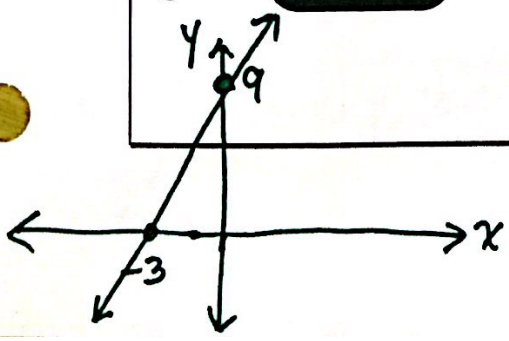
Equation: $y = -3x - 2$
Slope: -3
y-intercept: -2

Graph the equation:

$-3x + y = 9$

$-3(0) + y = 9$
$y = 9$

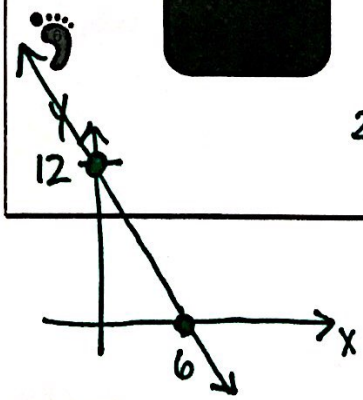
$-3x + 0 = 9$
$\frac{-3x}{-3} = \frac{9}{-3}$
$x = -3$



The amount of money you spend on x bags of potato chips and y cans of soda is given by the equation $2x + y = 12$. Graph the equation. Be able to explain your process.

$2x + 0 = 12$
$\frac{2x}{2} = \frac{12}{2}$
$x = 6$

$2(0) + y = 12$
$y = 12$



Stinky Feet Test Review

Write an equation of the line that crosses through the following points.

$(-1, 7)$ and $(5, 1)$ $\frac{1-7}{5-{-1}} = \frac{-6}{6} = -1$

[redacted]

7

$1 = -1(5) + b$

$1 = -5 + b$

$+5 \quad +5$

$6 = b$

$\boxed{y = -x + 6}$

Write an equation of the line that crosses through the following points.

$(0, 3)$ and $(4, 11)$ y-int

$\frac{11-3}{4-0} = \frac{8}{4} = 2$

[redacted]

8

$\boxed{y = 2x + 3}$

Write the equation of the line that goes through the points given in the table.

x	y
-5	8
-3	4
-1	0
0	-2
1	-4

+2 2 -4

y-int

Slope $= \frac{-4}{2} = -2$

[redacted]

$\boxed{y = -2x - 2}$

The graph shows the amount of money in a cashbox *y* based on cookie sales *x*

1. What is the meaning of the slope?
2. What is the meaning of the y-intercept?

[redacted]

Slope – 50¢ per cookie

Yint – $30 in cashbox @ the start