

Name: _____

Class: _____

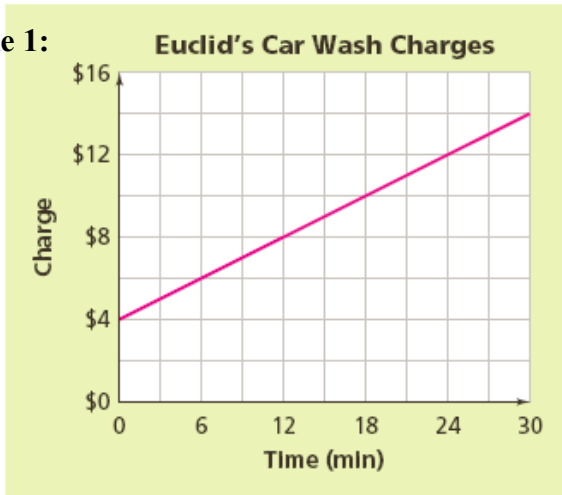
M8-U4: Notes #3 – y-intercept & Slope Intercept Form

Date: _____

Finding the y-intercept of a line

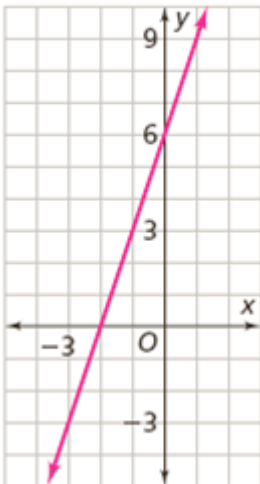
y-intercept is the y-coordinate of the point where a line crosses the y-axis, it's also the initial value when $x = 0$.

Example 1:

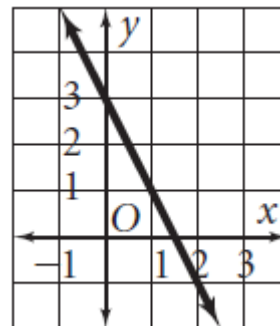


Try-It!

a.



b.



Example 2: Determining the y -intercept of a table

a.

x	-6	-4	-2	0	2	4
y	-10	-7	-4	-1	2	5

b.

x	1	2	3	4	5	6
y	4.5	4.0	3.5	3.0	2.5	2.0

c.

x	y
-4	-4
-2	0
0	4
2	8

Try-It!

a.

Squeaky Clean Car Wash Charges

Time (min)	5	10	15	20	25
Charge	\$8	\$13	\$18	\$23	\$28

b.

x	y
5	50
10	40
15	30
20	20

Example 3: Slope-Intercept Form of Linear Equations:

$y = mx + b$ (m stands for slope and b stands for y -intercept)

1. $y = 4x + 7$ slope _____ y -intercept _____

2. $y = 3x - 8$ slope _____ y -intercept _____

3. $y = 6 - 7x$ slope _____ y -intercept _____

4. $y = 10x$ slope _____ y -intercept _____

5. $y = 12$ slope _____ y -intercept _____

6. Given slope of $\frac{2}{9}$ and the y -intercept is 3. _____

7. Given slope of 0 and the y -intercept is 1. _____

8. Given $m = -1$ and $b = -6$. _____

9. Given $m = -\frac{2}{3}$ and $b = 5$. _____

10. Given $m = -4$ and the y -intercept is (0, 2). _____

11. Given slope of 0.4 and $b = 0.6$ _____