# GRAPHING LINEAR EQUATIONS REVIEW

## 1. Slope-Intercept

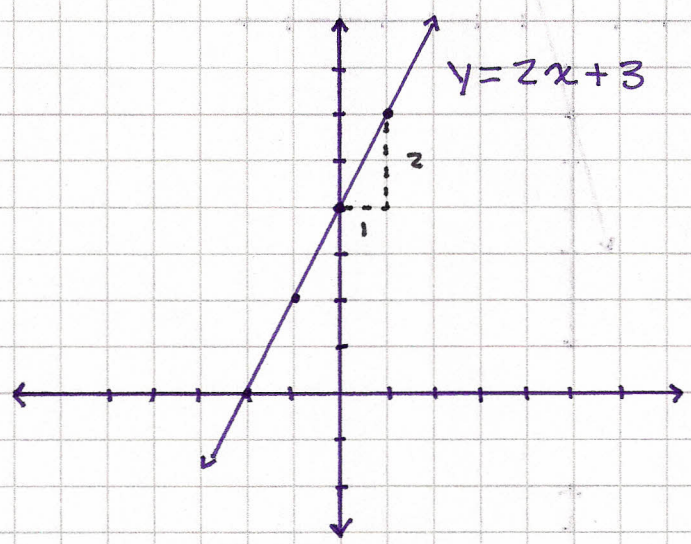
$y = ax + b$ ← y-intercept

↑ slope

$y = 2x + 3$

↑ $\frac{\Delta y}{\Delta x} = \frac{2}{1}$

- Start at y-int.
- Use slope to Find next point

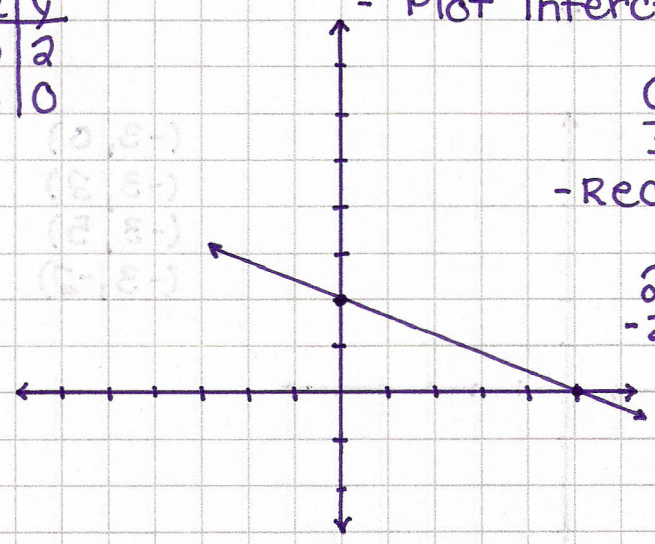



## 2. Intercept

$2x + 5y = 10$

- When 'x' is 0 'y' is ?
- When 'y' is 0 'x' is ?
- Plot Intercepts

| x | y |
|---|---|
| 0 | 2 |
| 5 | 0 |



OR

- Rearrange $y = ax + b$

$$2x + 5y = 10$$
$$-2x \qquad -2x$$

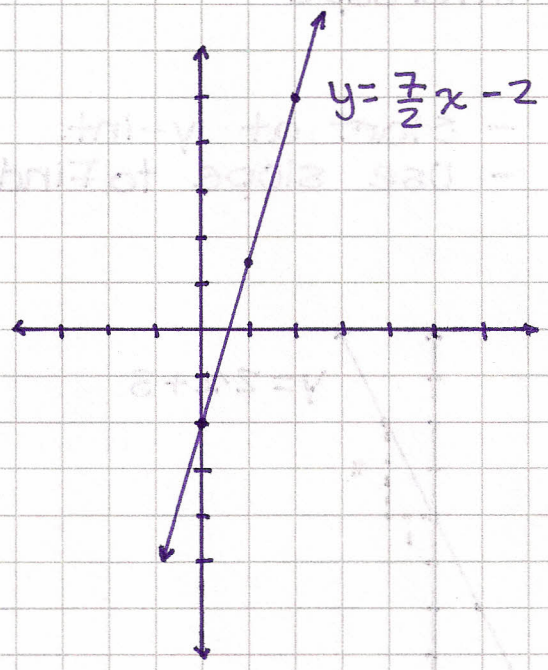
$$\frac{5y}{5} = \frac{-2x}{5} + \frac{10}{5}$$

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

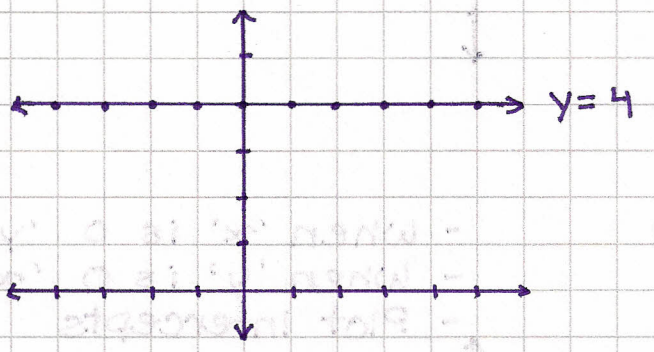
3. Table / Pick two points

$y = \frac{7}{2}x - 2$ - when 'x' is ?, 'y' is ?

| x | y |
|---|---|
| 0 | -2 |
| 1 | 1.5 |

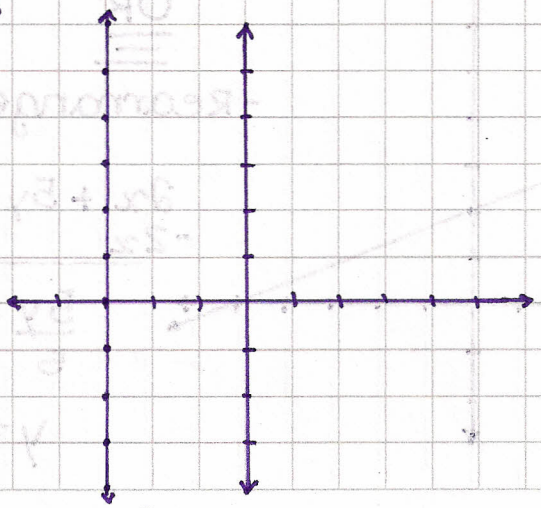



Ex// $y = 4$




$y = 0x + 4$

Ex// $x = -3$




(-3, 0)
(-3, 2)
(-3, 5)
(-3, -2)