



SLOPE-INTERCEPT HOMEWORK



Slope-Intercept Form: $y = mx + b$ $m =$ slope and $b =$ y-intercept

Given the equation, identify the slope and y-intercept.

1. $\frac{-2y}{-2} = \frac{6x+4}{-2} \rightarrow y = -3x - 2$
 Slope -3
 y-intercept -2

2. $18x + 6y = 12$

Slope -3

y-intercept 2

$$\frac{18x + 6y = 12}{-18x} \quad \frac{-18x}{-18x}$$

$$\frac{6y}{6} = \frac{-18x + 12}{6}$$

$$y = -3x + 2$$

3. $6x + 7y = 0$
 $\frac{6x + 7y = 0}{-6x} \quad \frac{7y}{7} = \frac{-6x}{7}$
 Slope -6/7
 y-intercept 0

$$y = -6/7x$$

4. $3x + y = 3x - 5$

Slope 0

y-intercept -5

$$\frac{3x + y = 3x - 5}{-3x} \quad \frac{-3x}{-3x}$$

$$y = 0x - 5$$

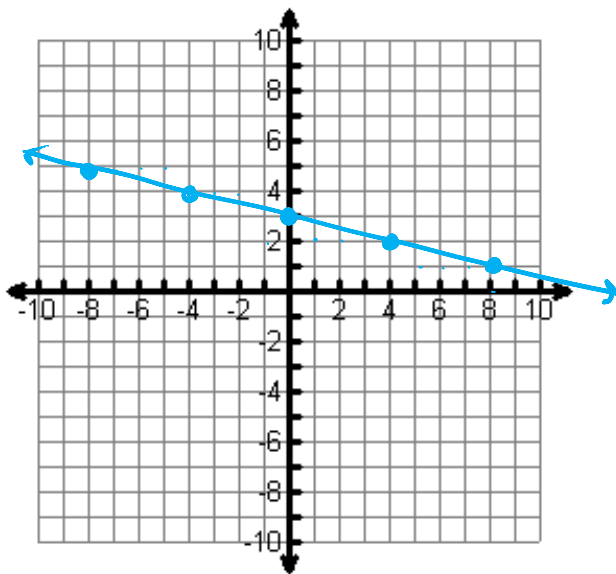
$$y = -5$$

Given the equation, graph it using slope-intercept form.

5. $y = -\frac{1}{4}x + 3$

$$m = -\frac{1}{4}$$

$$y\text{-intercept} = 3$$



6. $\frac{-2y}{-2} = \frac{8x-2}{-2}$

$$y = -4x + 4$$

$$m = -\frac{4}{1}$$

$$y\text{-intercept} = 4$$

