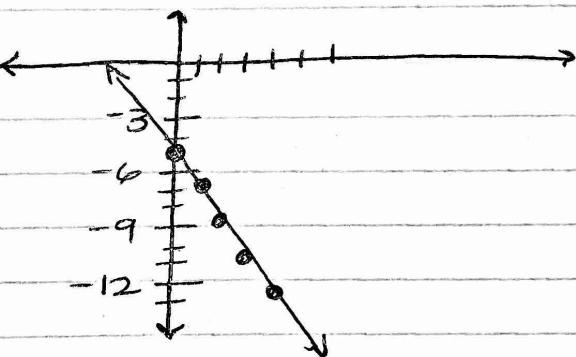


Graph $y = -2x - 5$ using a table

x	y
0	-5
1	-7
2	-9
3	-11
4	-13



Based on what we've learned, what do we see in this equation, graph, table?

y-intercept - Where is this in the table? the graph? the equation?

slope - Where do we see this in the table, the graph, the equation?

Slope-Intercept Form



Shows the slope & the y-intercept

$$y = \underset{m=\text{slope}}{\underset{\uparrow}{m}} x + \underset{b=\text{y-intercept}}{\underset{\curvearrowleft}{b}}$$

Ex: $y = 3x - 2$ Find slope & y-intercept
slope = 3
y-intercept = -2

Ex: Slope = $\frac{1}{2}$ y-intercept = 4

$$y = \frac{1}{2}x + 4$$

Ex: $(1, 0), (5, -1)$