

Agenda

Homework:

- **Linear Equations
Graphs & Tables WS**
- **AM**

Materials:

- **Ruler**
- **Math Notebook**

Do Now:

- **Take out
homework**
- **Set up Cornell
Notes (see TV)**
- **Update Table of
Contents**

Cornell Notes

- Topic: Linear Functions – Tables
- EQ: How do you generate a linear function in slope-intercept form from a table?

Date 10/28/15	Topic Linear Functions - Tables	Pg
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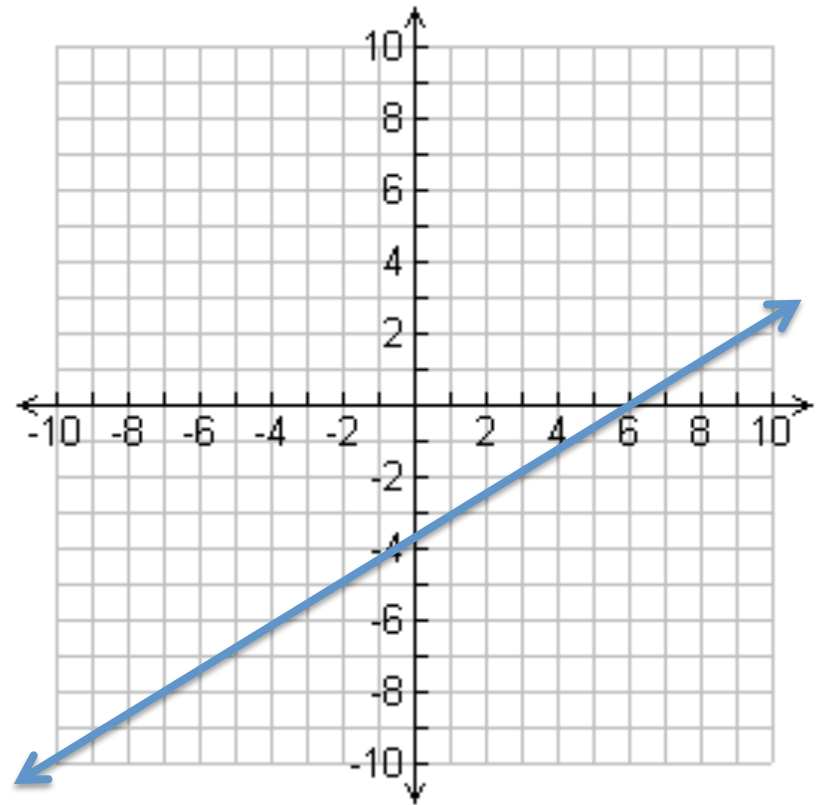
Recap: What are the four representations of a function?

- Graph
- Table
- Symbolic
- In Context

x	y

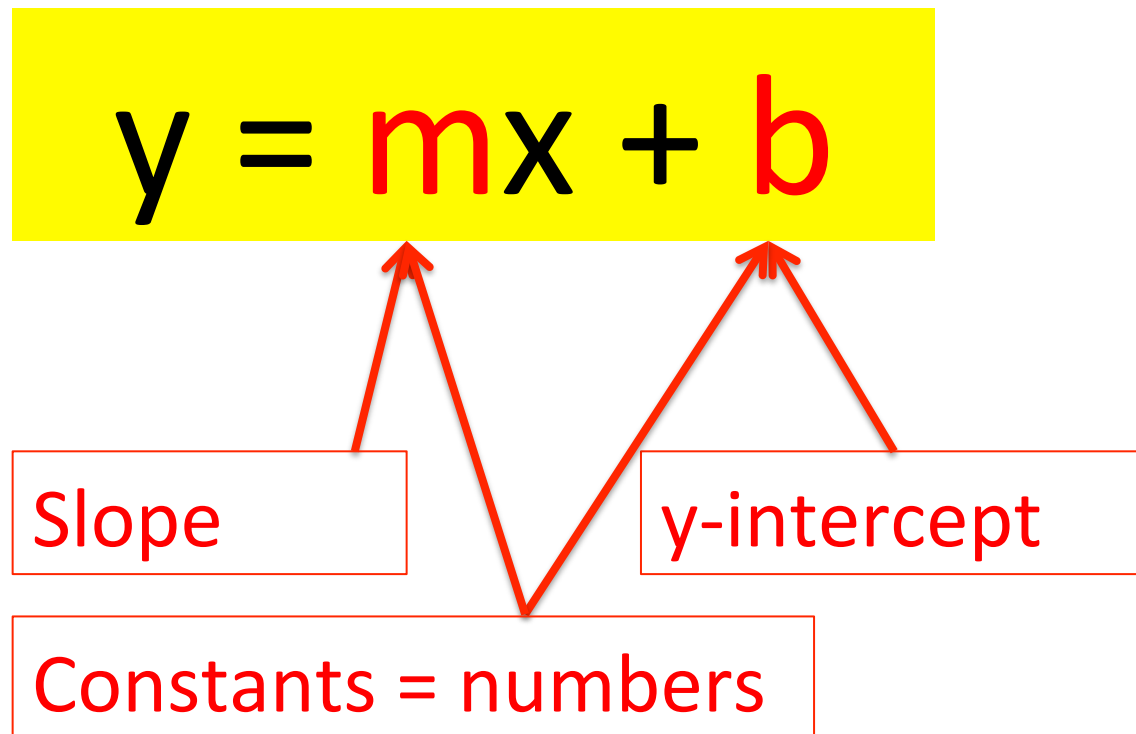
$$y = mx + b$$

Scenario:



Recap: What do we need to know to generate a function in slope-intercept form?

- The equation for a STRAIGHT LINE



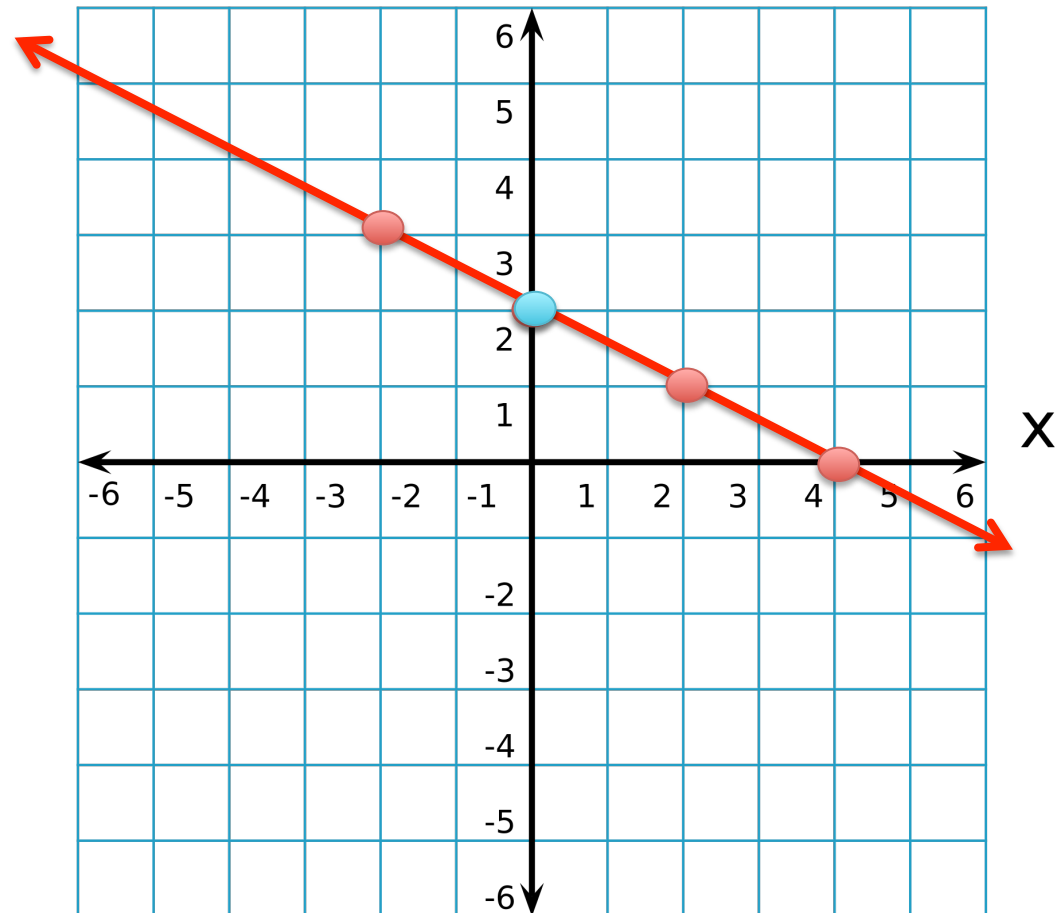
How do you find the y-intercept using a table?



- The y-coordinate of the point where $x = 0$
y-axis

y-intercept: 2

x	-2	0	2	4
y	3	2	1	0



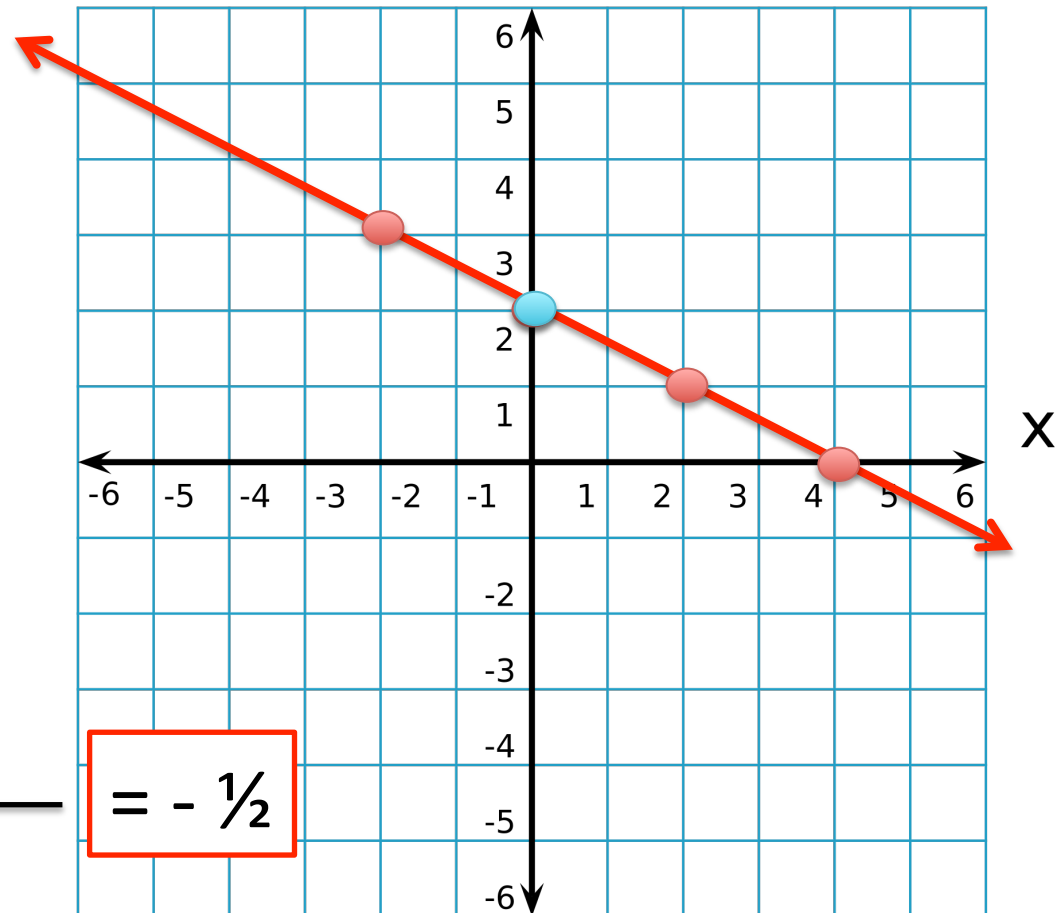
How do you find the slope using a table?

- Rate of change: **Change in y/Change in x**
y-axis

x	-2	0	2	4
y	3	2	1	0

Diagram illustrating the calculation of slope from a table. The table shows x values (-2, 0, 2, 4) and y values (3, 2, 1, 0). Blue arrows indicate the change in x (run) between consecutive points, which is +2. Red arrows indicate the change in y (rise) between consecutive points, which is -1. The central cell (0, 2) is highlighted in yellow.

$$\text{Slope} = \frac{\text{rise}}{\text{run}} = \frac{-1}{2} = -\frac{1}{2}$$





How do you create a function in slope-intercept form from a table?

- Plug in m (slope) & b (y-intercept)

		+2	+2	+2	
x	-2	0	2	4	
y	3	2	1	0	
		-1	-1	-1	

y-intercept: 2

$$y = mx + b$$

$$\text{Slope} = \frac{\text{rise}}{\text{run}} = \frac{-1}{2} = -\frac{1}{2}$$