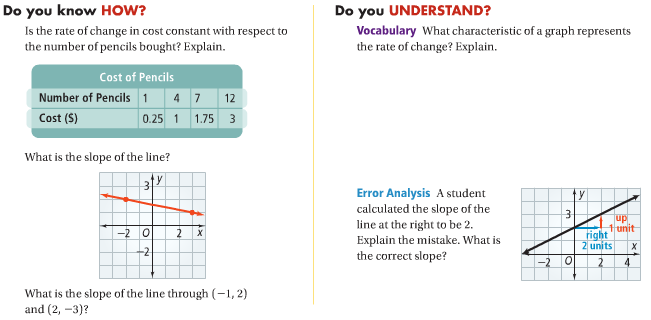
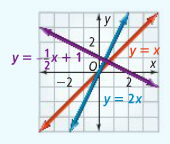
**College Algebra 1**

**5.3 Slope-Intercept Form**

Objectives: Students will be able to (a) write linear equations using slope intercept form and (b) graph linear equations in slope intercept form.

Starter:



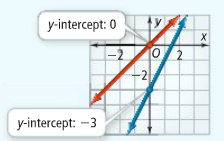
Recall: Linear Function: a function whose graph is a line is a linear function. 

All graphs have what we call a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. This is the simplest function with specific characteristics.

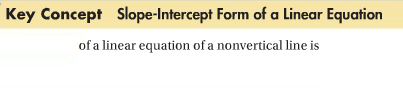
The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is y = x or f(x) = x.

The following are examples of linear Functions:

A\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is an equation that models a linear function. The variables within a linear equation cannot be raised to a power other than 1.



Graphs cross both the x and y axes. The point we will focus on is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (the point the graph crosses the y axis.



**Identifying Slope and the y-intercept:**



**You Try:**



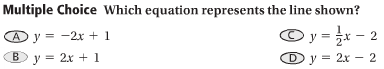
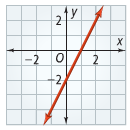
**Writing an Equation in Slope-Intercept Form:**



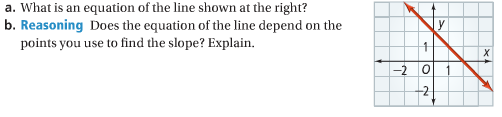
**You Try:**



**Writing an Equation from a graph:**

****

**You try:**

****

**Writing an Equation from Two Points:**

****

**You Try:**

****

**Graphing a Linear Equation:**

****

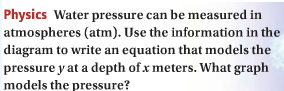
**You Try:**

****



**Real Life Application:**

**Modeling a Function:**

****

