**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:**

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**You try:**

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**Writing an Equation from Two Points:**

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**You Try:**

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**Graphing a Linear Equation:**

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**You Try:**

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**Real Life Application:**

**Modeling a Function:**

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