**Lesson 4-3 Vertical and Horizontal Relations**

Two integers have a sum of 3. Let x and y stand for the two numbers. Fill in the table below based on this relationship and graph the data points.

The points lie on a straight line so the relation is linear.

We can write this linear relation as: First integer + second integer = 3

Then, the linear relation (or equation) is x + y = 3

This equation has both variables on the left side of the equation. (means the same as y = 3 – x)

**BUT…..**

**Suppose one variable doesn’t appear in the equation.**



BIG IDEA \*\*\*\*\*:







1.

b)

-



c)

Graph each of the following equations

1. $2x+y=1$ b) $6x+3y=-12$





The big Idea:

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