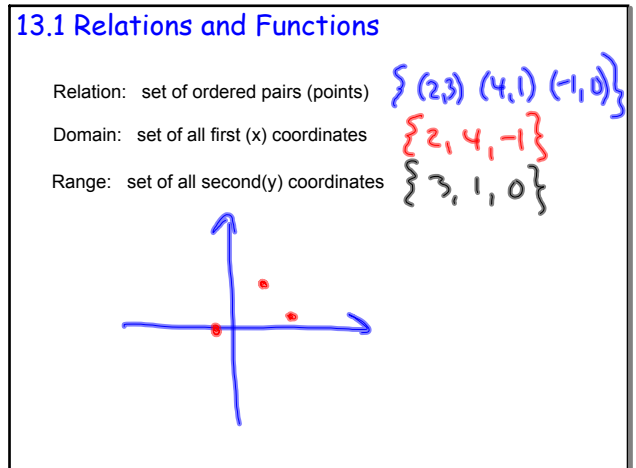
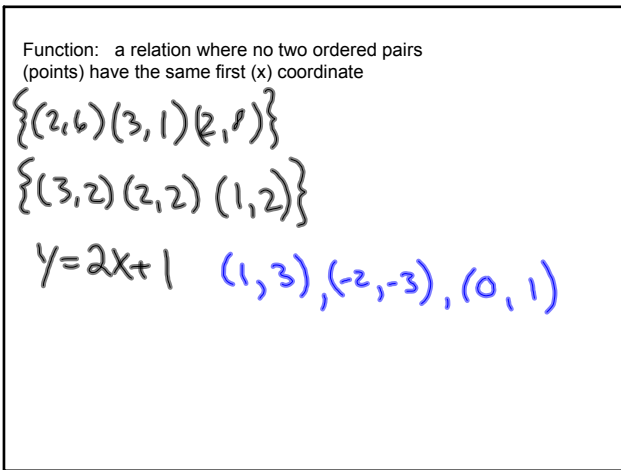


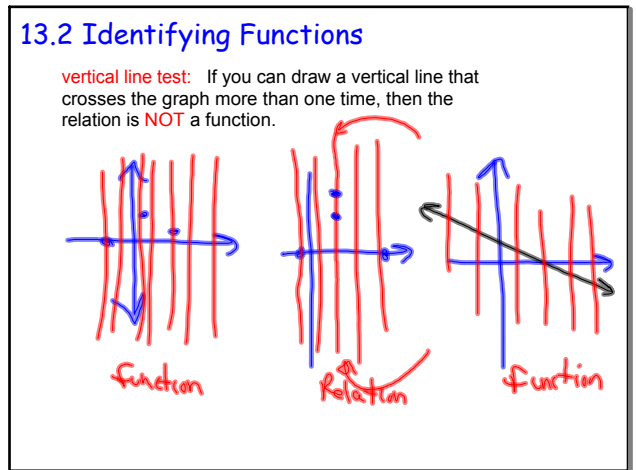
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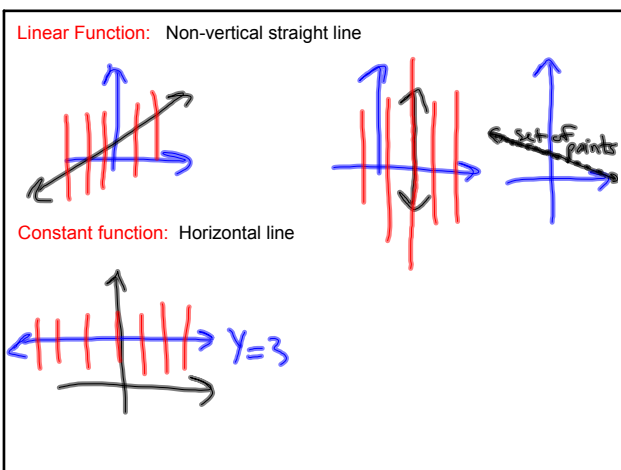
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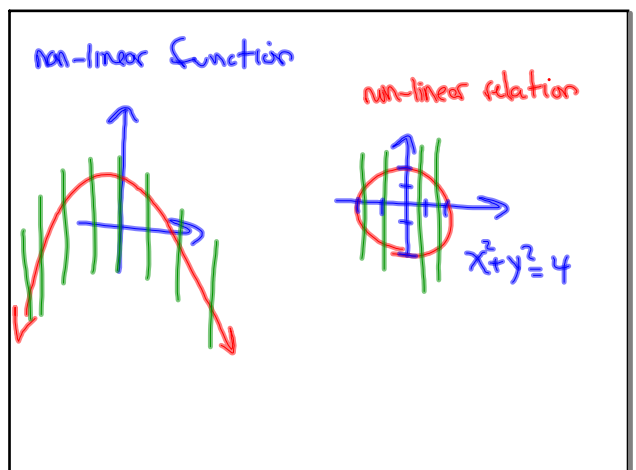
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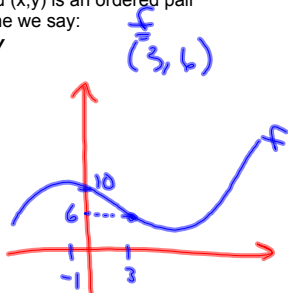


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13.3 Standard Function Notation

If we call the function "f", and (x,y) is an ordered pair that is part of the function, then we say:
The **value** of f at x is y

We write it like this:
 $f(x)=y$
 $f(3)=6$
"y equals F of x"



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$$g(x) = 3x - 6$$

$$g(2) = 3(2) - 6$$

$$g(2) = 0$$

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$$g(x) = 3x + 6 \quad f(x) = 2x - 1$$

$$f(2) = 3$$

$$g(2) = 12$$

$$f(g(2)) = f(12) = 23$$

Composition

$$g(f(2)) = g(3) = 15$$

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13.4 Direct Variation

one value increases and the other does the same.
one value decreases and the other does the same.
* The quotient of the variables is always the same

$$\frac{y}{x} = \frac{6x}{x}$$

$$\frac{y}{x} = 6$$

$$(1, 6)$$

$$(2, 12)$$

$$(3, 18)$$

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13.5 Inverse Variation

one value increases as the other decreases.
The product of the variables is always the same

$$\left(y = \frac{3}{x}\right)^x$$

$$yx = 3$$

$$(1, 3)$$

$$(2, 1.5)$$

$$(3, 1)$$

constant of variation

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13.6 Age Problems

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Homework:
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#1,3,14,19,21,23,24

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