

10/16 Algebra 1-Downing

Go over PC

Test on Wednesday

Test Review

Ex)

x	2	4	8	10
y	12	9	3	0

$\begin{matrix} +2 & +4 & +2 \\ \downarrow & \downarrow & \downarrow \\ -3 & -6 & -3 \end{matrix}$

$$\frac{\text{rise}}{\text{run}} = \frac{\Delta y}{\Delta x} = \frac{-3}{2}, \frac{-6}{4}, \frac{-3}{2}$$

*Same rate of change is Linear

Ex) A tree company charges a \$200 base price and \$40 per tree trimmed.

1) Write a function in function notation to represent this situation.

$$f(x) = 40x + 200$$

2) If you trim 10 trees, what will the cost be?

$$f(10) = 40(10) + 200$$

$$f(10) = 400 + 200$$

$$f(10) = \$600$$

3) If the cost was \$400, how many trees were trimmed?

$$400 = 40x + 200$$

$$\begin{matrix} 400 & = & 40x & + & 200 \\ -200 & & -200 & & -200 \end{matrix}$$

$$\frac{200}{40} = \frac{40x}{40}$$

$$5 = x$$

5 trees

Describe the transformation

like #9 $g(x) = -x \rightarrow$ Reflected

$h(x) = \frac{10}{9}x - 5 \leftarrow$ Down 5 stretched by $\frac{10}{9}$

HOY - VUX

Horizontal
0-slope
 $y = ??$

Vertical
Undefined Slope
 $x = ??$

Work on Test Review