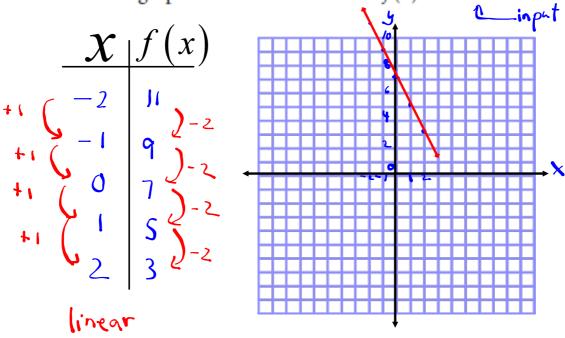
WARM-UP...

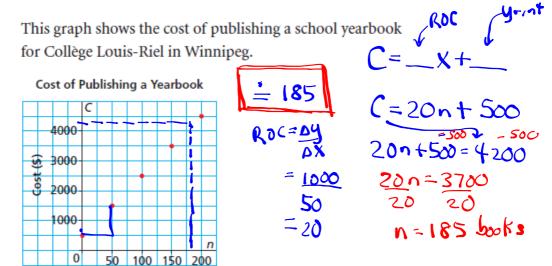




Interpolating Data from a Graph...

Number of yearbooks

EXAMPLE #1:

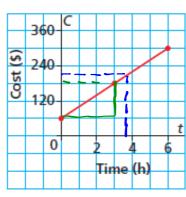


The budget for publishing costs is \$4200. What is the maximum number of books that can be printed?

EXAMPLE #2:

This graph shows the total cost for a house call by an electrician for up to 6 h work.

Cost of an Electrician's House Call



$$\stackrel{\cdot}{=} 3 \frac{3}{4} \text{ hr}$$
3 hr s 45...

$$3hvs 45min$$

$$ROC = \frac{\Delta y}{\Delta x}$$

$$= 120$$

$$= 40$$

The electrician charges \$190 to complete a job. For how many hours did she work?

Determine the rate of change.

$$C = 40t + 60$$

$$190 = 40t + 60 = 190$$

$$40t + 60 = 190$$

$$40t = 130$$

$$40$$

$$40 = 3.25 h$$

$$= 3h 15min$$

Now try sketching each of the following:

What do you think would be a good first step to get these sketches started?

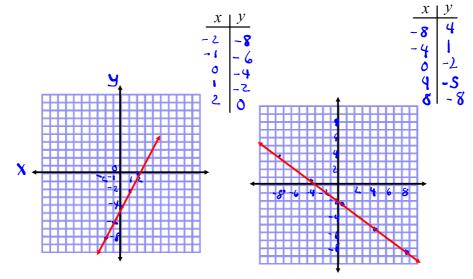
1)
$$6x-3y=12$$

 $-3y=-6x+12$
 -3

$$y = 2x - 4$$

2)
$$3x + 4y + 8 = 0$$

 $4y = -3x - 8$
 $4y = -3x - 2$



PRACTICE PROBLEMS...

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Practice Problems...

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