

**Applied Technical Math 10/3**

**Warm Up IXL**

**8th Grade**

**Z.7**

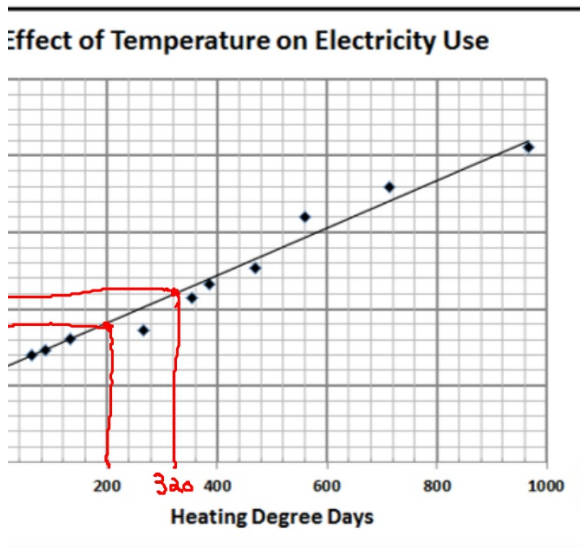
## I can find the slope and the equation of a line given a table and graph

1. The Kilowatt-hours (KWH) of electricity a home uses each month are dramatically affected by the temperature difference inside versus outside (measured in degree days).

Round slopes and y-intercepts to 2 decimal places

- Find the equation of the line passing through the lowest and highest degree day.
- Find the equation of the line passing through the 386 and 62 degrees days.

Heating Degree Days (HDD)	KWH Used
714	1799
469	1269
386	1160
266	860
133	804
62	696
7	677
5	666
87	736
354	1071
561	1602
968	2060



$$\frac{y_2 - y_1}{x_2 - x_1} = \frac{666 - 2060}{5 - 968}$$

$$m = \frac{-1394}{-963} \approx 1.45$$

$$y = mx + b$$

$$666 = 1.45(5) + b$$

$$666 = 7.25 + b$$

$$-7.25 = -7.25$$

$$658.75 = b$$

$$y = 1.45x + 658.75$$

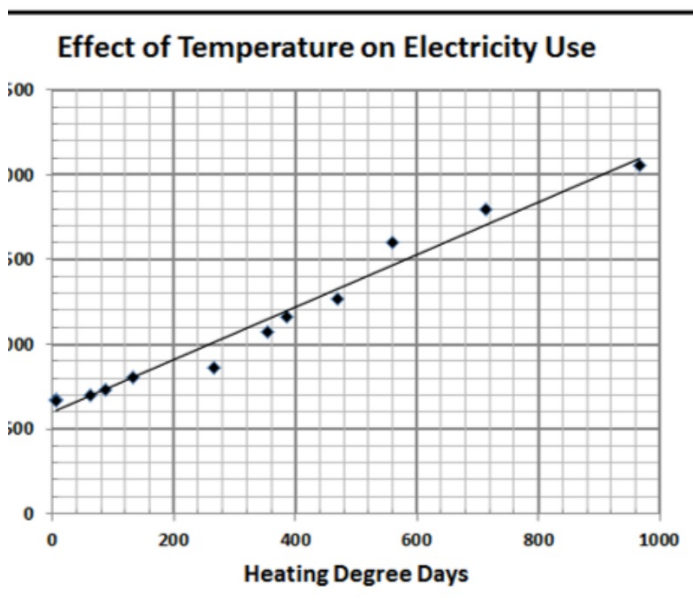
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Round slopes and y-intercepts to 2 decimal places

- c) Find the equation of the line through two representative points from the trend line. The points do not have to be from the data.
- d) Comment on the similarities and differences in the equations you found in a – c.

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# ICA Section 1.2

## Reading Questions

### Hmwk Pg 20

### #2-6