

Key

1.1-1.4 REVIEW

Date

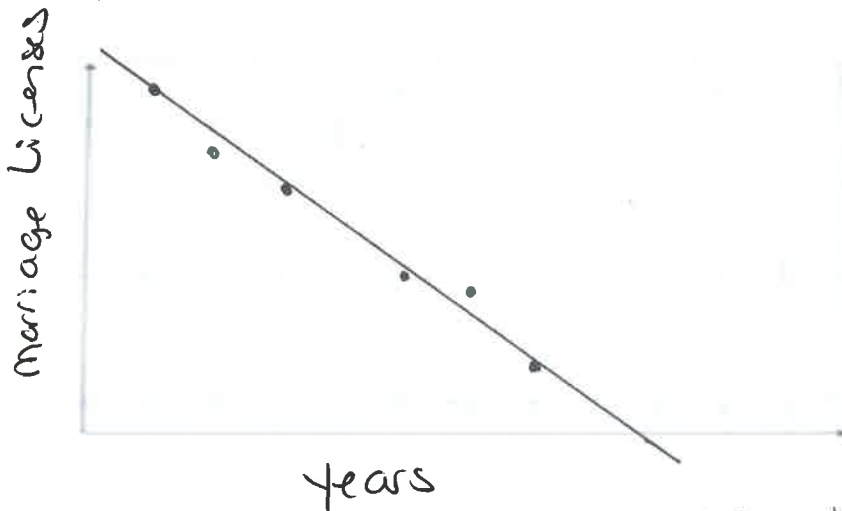
Period

Use the data to answer the questions.

Year	Marriage Licenses
2000	148,000
2002	139,000
2005	129,000
2010	111,000
2011	109,000
2013	93,500

1. What is the equation? $y = -3870.95x + 7,889,931.57$

2. Graph the data and draw the line of best fit.



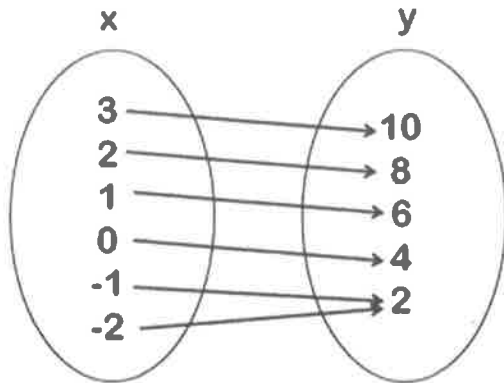
3. Use your equation to determine how much electricity would be used if it was 99.4 degrees?

51,257.82 so $51,258$ or $51,257$

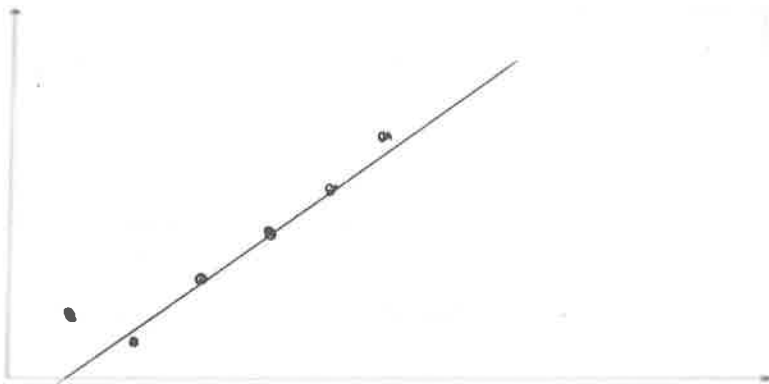
4. What is the correlation coefficient? -0.99

5. What type of correlation is this? (Make sure you put if positive or negative, strong or weak, or none.) strong negative

Use the data to answer the questions.



6. What is the equation? $y = 1.71x + 4.48$
7. Graph the data and draw the line of best fit.



8. Use your equation to determine the approximate y value if x is 27.5?

51.51

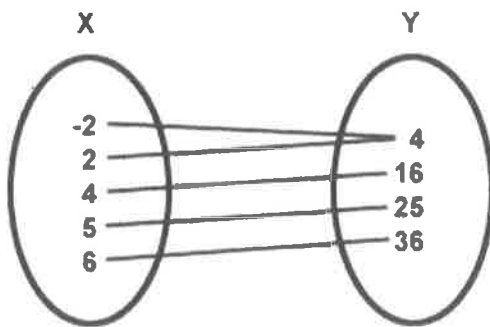
9. What is the correlation coefficient? 0.98

10. What type of correlation is this? (Make sure you put if positive or negative, strong or weak, or none.) strong positive

Determine if the following scenarios are a correlation or not and if they are causal or not.

11. The more you watch T.V. and your grades. negative correlation - no causal
12. The number of days you go without a shower and the number of friends who hang out with you. negative correlation - causal
13. The hotter the weather and the number of swimsuits sold. positive - causal
14. The older you get and the number of hours you sleep. negative - no causal

Determine if the following are a function or not. List the domain and range.



15.

Function? yes

Domain: -2, 2, 4, 5, 6

Range: 4, 16, 25, 36

Miles	Cost (\$)
225	48.8
800	110
1,100	109
1,675	145
1,950	179
2,250	223

16.

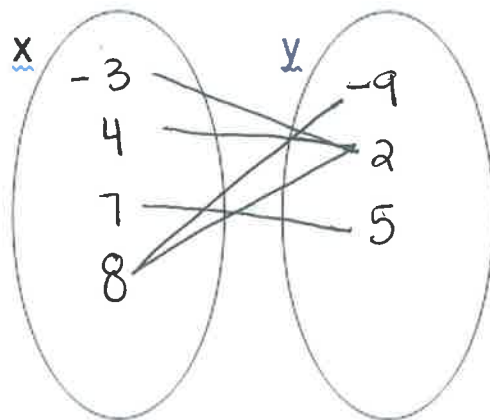
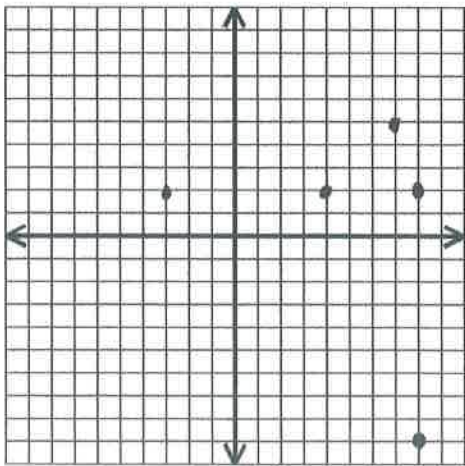
Function? yes

Domain: 225, 800, 1100, 1675, 1950, 2250

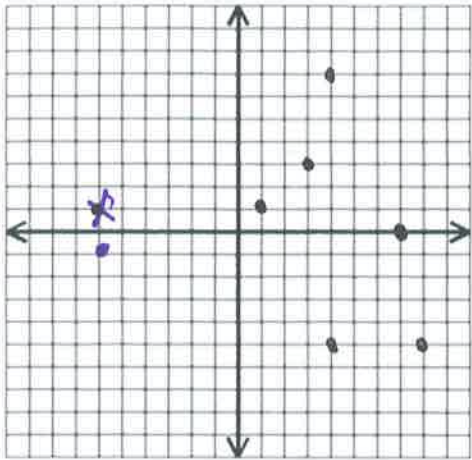
Range: 48.8, 110, 109, 145, 179, 223

Draw a mapping and a graph for the relation.

17. $\{(8,2), (4,2), (8,-9), (7,5), (-3,2)\}$



18. Represent the relation shown in the graph as a set of ordered pairs, a table and a mapping.



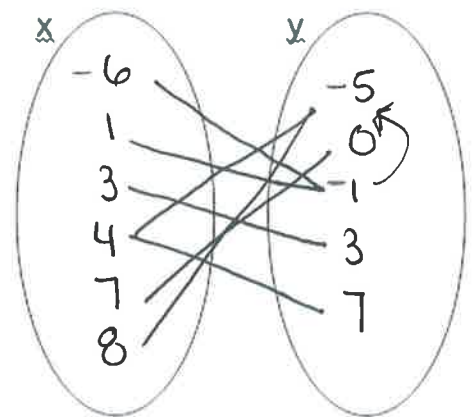
a) ~~set~~ set of ordered pairs

$(-6, 1), (4, 7), (4, -5), (1, 1), (3, 3), (7, 0), (8, -5)$

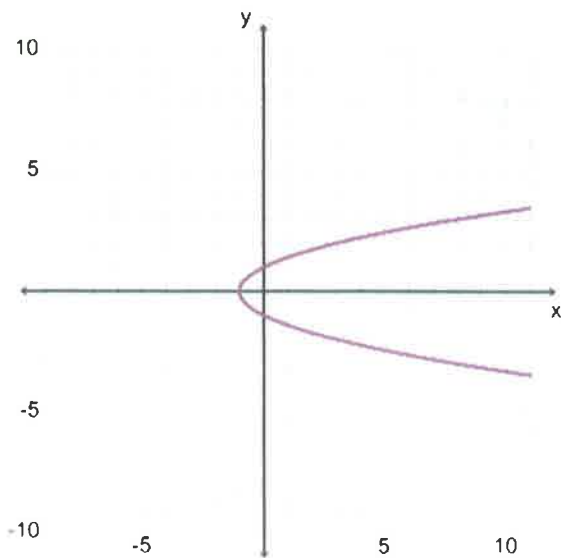
b) a table

x	y
-6	1
1	1
3	3
4	-5
4	7
7	0
8	-5

c) a mapping

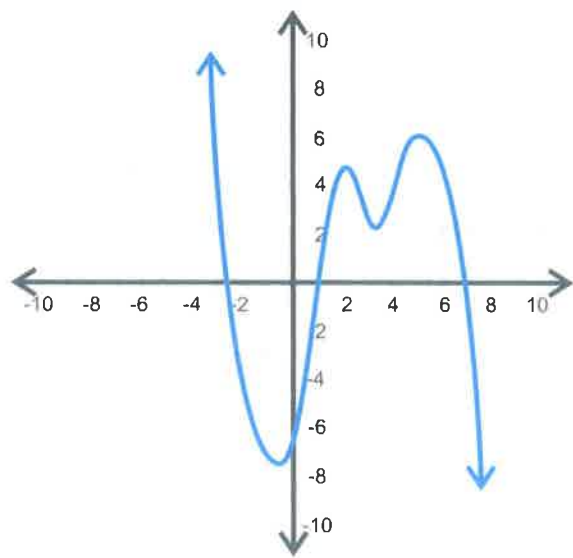


Function or NOT a Function?



19.

NOT A FUNCTION



20.

FUNCTION