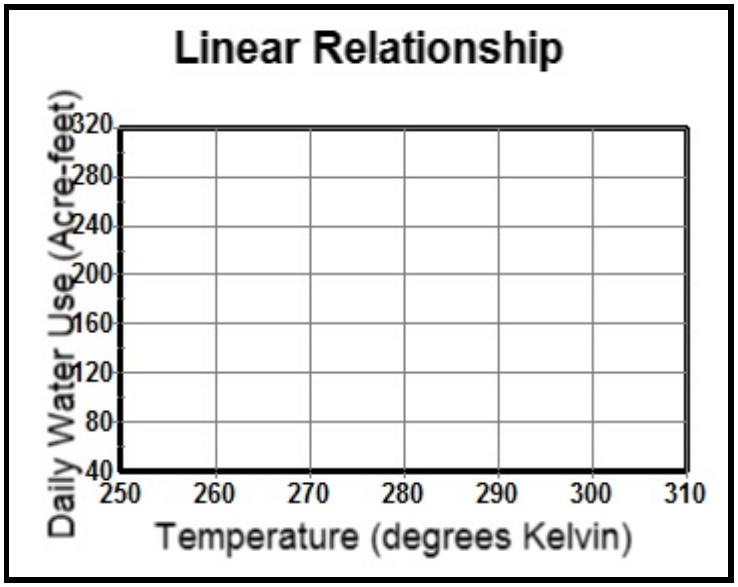
(10 points - 15 minutes)

7. Use the data below to answer parts (a) - (i).

Day	(X) Temperature (°K)	(Y) Daily Water Use
1	278	166
2	260	51
3	298	191
4	308	126
5	271	108
6	310	308
7	250	50



(a) Plot the points on the graph.

(b) The regression equation is: _____

(c) Plot the line on the graph.

(d) What proportion of the variation in water use is explained by temperature? _____

		Value	Expression
(e)	**The Total Variation in Y :**	_____	_____
(f)	**The Explained Variation in Y :**	_____	_____
(g)	**The Unexplained Variation in Y :**	_____	_____
(h)	**The standard error of estimate (S_e) =**	_____	_____

(i) If today's temperature is 290 °K, what is the predicted water use? _____