FST 2.2-2.3 Worksheet

1) The table shows the relationship between the time a student spends typing each week

and his percent improvement on speed assessments.

	and the percent improvement of the							
LI	Practice	6	8	10	12	14	16	18
	hours							
12	Percent	25	26	29	36	30	35	39
	improvement							

Round answers to the thousandths (3 decimal places)

a) Find the linear model for the relationship between practice hours and percent improvement.

b) Use the model from Part a to predict the percent improvement for 20 hours of practice.

c) Is your prediction in Part b an interpolation or an extrapolation? Explain.

d) Calculate the residual for 8 hours of practice?

Y= 1.089(8) + 18.357

$$S = 26 - 27.071429$$

R= 065 - 1 = $[R = -1.071]$

E) What is the correlation coefficient for the line?

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f) What is the sum of squared residuals for the data?