QUIZ 6 - MATH 111 Friday, March 11

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Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. The following table shows the length in meters of the winning long jump in the Olympic Games for the indicated year:

Year	1900	1904	1908	1912
Length	7.19	7.34	7.48	7.60

   (a) Are the data of length as a function of time linear?

   (b) Find the equation of the regression line giving the length as a function of time (please, round your regression parameters to three decimal places).

   (c) What is the slope of the regression line? What does it mean in practical terms?

   (d) Plot the data points and the regression line on the same system of axes. Make sure to label your axes.

   (e) Would you expect the regression line formula to be a good predictor of the winning length over a long time period? Explain your answer.