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. Consider the function $f(x) = -x^3 + 5x^2 3x$.
 - (a) Sketch **neatly** its graph in the window $[-3, 7] \times [-3, 10]$.

(b) What is the relative minimum and what is the relative maximum point?

Minimum = (, ,

), Maximum = (,).

2. Consider the data in the following table:

- (a) The linear regression curve is:
- (b) The quadratic regression curve is: