QUIZ 6 - MATH 111   Friday, March 13
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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 neatly all your work**. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. A quantity y varies inversely as the cube of the quantity x. If 2 units of x correspond to 32 units of y, how many units of x correspond to $\frac{1}{2}$ units of y?

2. Perform the second difference test to detect whether the following data are quadratic:

x	-1	0	1	2	3
y	8	2	-2	-4	-4

   If yes, find a quadratic model manually. If not, find the best power model fitting the data.