

**Show all work for full credit**

1. (40 pts) What are the mean, median and mode for these numbers: 3, 5, 4, 3, 7, 9

2. (60 pts) Find, correct to at least six decimal places, the standard deviation of these numbers: 3, 5, 4, 3. Use at least eight decimal places when working with the deviations etc/

What are your total payments?

3. (50 pts) You can afford to make monthly credit card payments of \$60 for 2 years assuming an APR of 23% compounded monthly. If you used the card just once to make a single purchase, how much would that purchase be for? (Note that your total payments are \$1440, so obviously your single purchase will be less than that.