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Section:  $322 \square$ 

 $Math\ 211\ Quiz\ 6$ Oct 25, 2012

1. (10 pts) Find the absolute maximum and minimum values of f on the given interval.

$$f(x) = x^4 - 2x^2 + 3$$
,  $[-2, 2]$ 

2. (10 pts) The annual demand q for bottles of wine from a vineyard when the bottles are priced at p dollars each satisfies the equation  $qe^{0.03p} = 5000$ . The price is currently \$14 per bottle. Find the rate at which demand changes (with respect to time) if the price increases at a rate of \$1.20 per year.