

Name: _____

Math 211 Quiz 10

Section: 322

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Dec 6, 2012

1. (10 pts) The demand function for an electronics company's car stereos is $D(q) = 2 - q$ and the supply function is $S(q) = q^2$, where q is measured in thousands.

- a. At what price is the market for the stereos in equilibrium?
- b. What is the maximum total surplus?

2. (10 pts) A retiree is paid \$1500 per month by an annuity. If the income is invested in an account that earns 5% interest compounded continuously.

- a. What is the future value of the income after ten years?
- b. What is the present value of the income over a ten-year period?