

1. Assume that a producer finds that if he charges \$90.0 he gets 10 buyers, if he charges \$65.6 he gets 12 buyers and if he charges \$27.5 he gets 15 buyers.

Assuming a quadratic demand curve find:

- (a) Find the demand curve $p_d(x)$. Make sure to show your work.
- (b) For what values of x does this curve make sense?
- (c) What price should he charge to maximize revenue.
- (d) What is the consumer surplus at this price.