

Workout Book Problems:

23.1,23.2,23.7,23.9,24.7

1. *Ten* firms have cost function  $c(q) = q^2 + 10q + 100$ . They are price-takers.
  - A) What are the firms supply and inverse supply functions?
  - B) Suppose  $p > 10$ , how much does each firm produce at price  $p$ ?
  - C) What is the market supply at price  $p$ ?
  - D) If demand is given by  $Q_d = \frac{500}{p-10}$  what is the equilibrium price when there are 10 firms?
  - E) How much does each firm produce?
  - F) What are the firms profits in equilibrium?