

## Problem Set #12

Sonoma State University  
Economics 305-Intermediate Microeconomic Theory

Dr. Cuellar

Consider the following Quantity, Price and Total Cost schedule for a single price monopolist.

**Table 1**

Price per unit	Quantity	Total Revenue	Marginal Revenue	Total Cost	Marginal Cost	Average Total Cost
10	0			100		
8	100			300		
6	200			700		
4	300			1300		
2	400			2100		
0	500			3100		

- (1) Complete Table One.
- (2) For a single price monopolist, what is the profit maximizing output?
- (3) For a single price monopolist, what is the profit maximizing price per unit?
- (4) At the single price monopolists profit maximizing output and price, what is the profit per unit?
- (5) At the single price monopolists profit maximizing output and price, what is the total profit?
- (6) Show the above monopolist graphically. Assume standard “U” shaped cost curves.
- (7) At what price is the price elasticity of demand equal to one? Hint, you do not need to actually calculate elasticity.