

Problem 1

Estimate the demand function for the data below using a spreadsheet.

	A	B	C
1	obs	P	Q
2	1	100	1400
3	2	200	1200
4	3	300	600

Problem 2

Consider the following spatial competition problem.

- There are two pizza places, each on the opposite end of a mile-long street evenly filled with consumers.
- The pizza place on the far-left end of the street—Pizza Place A—sells a pizza that consumers think has a value of $v_A = 22$. Their marginal cost per pizza is $c_A = 1$.
- The pizza place on the far-right end of the street—Pizza Place B—sells a pizza that consumers think has a value of $v_B = 25$. Their marginal cost per pizza is $c_B = 2.5$.
- The delivery charge is $a = 2$ per mile.

Complete the following:

- (a) Find the equilibrium price for each pizza place.
- (b) Find the equilibrium quantity sold for each pizza place.
- (c) Find the equilibrium profit for each pizza place.