

### ΛΥΣΕΙΣ ΑΣΚΗΣΕΩΝ ΦΥΛΛΑΔΙΟΥ 3

1	A
2	Δ
3	A
4	A
5	Γ
6	Δ
7	A
8	B
9	Δ
10	A
11	B
12	Δ
13	B

#### Άσκηση 1

$$P = 300 - 10Q$$

$$TR = 300Q - 10Q^2$$

$$MR = 300 - 20Q$$

$$MC = 10Q$$

$$MR = MC \Rightarrow Q = 10$$

$$P = 200$$

$$TR = 2000$$

$$TC = 500$$

$$\Pi = 1500$$

#### Άσκηση 2

$$P = 60 - 2Q$$

$$TR = 60Q - 2Q^2$$

$$MR = 60 - 4Q$$

$$MC = 26Q$$

$$MR = MC \Rightarrow Q = 2$$

$$P = 56$$

$$TR = 112$$

$$TC = 52$$

$$\Pi = 60$$

### Άσκηση 3

$$P = 50 - 1,25Q$$

$$TR = 50Q - 1,25Q^2$$

$$MR = 50 - 2,5Q$$

$$MC = 25$$

$$MR = MC \Rightarrow Q = 10$$

$$P = 37,5$$

$$TR = 375$$

$$TC = 250$$

$$\Pi = 125$$

### Άσκηση 4

$$P = 24 - 0,2Q$$

$$TR = 24Q - 0,2Q^2$$

$$MR = 24 - 0,4Q$$

$$MC = 23,6Q$$

$$MR = MC \Rightarrow Q = 1$$

$$P = 23,8$$

$$TR = 23,8$$

$$TC = 11,8$$

$$\Pi = 12$$

### Άσκηση 5

$$P = 5000 - 10Q$$

$$TR = 5000Q - 10Q^2$$

$$MR = 5000 - 20Q$$

$$MC = 200Q + 60$$

$$MR = MC \Rightarrow Q = 22.45$$

$$P = 4775,5$$

$$TR = 107.210$$

$$TC = 52227,25$$

$$\Pi = 54982,73$$

$$\Pi = 12$$