Solution to Quiz

G1

(a) Social benifit curve:

Cost: 200

Efficient: morginal benifit = magninal cost

 $760-40=200 \Rightarrow Q^{E}=140$ 

(b) Market demand

$$\Sigma_{i}Q_{i} = (200 - P) + (240 - P) + (160 - \frac{1}{2}P) = 600 - 2.5 P$$

 $P = 600 \times \frac{2}{5} - Q \times \frac{2}{5} = 240 - 0.4Q$  (Demand Curve)

P= 200 (Supply curve)

Q\* = 100

(c) When TV becomes this good. When P=200

$$Q_1 = 0$$

$$Q_2 = 40$$

$$Q_3 = 60$$

 $\max \{Q_1, Q_2, Q_3\} = 60$ 

QZ

Traffiz light: cost: 50,000 (50K)

benifit: 0.45% × 10,000 K = 45 K.

cost > benifit.

Stop signs: cost: 5 K

benifit: 0.054% × 10,000 K = 5.4 K

benifit > cost

The mayer should install the stop signs.

Qg,

<sup>(</sup>a) private good: helmer (excludable and rival in consumption)

<sup>(</sup>b) public good: mural on the outside door (not excludable and not rival)

<sup>(</sup>c) comon resource: fire-protection service (not excludable, rival in consumption)