Question 3.

Za Market Demand: Qd=110-10p

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Large firm marginal cost = \$5

Competitive fringe. Total Marginal cost

MC = (5+ 100 g) 200

Supply Curve: p=mC

50 P=15+100q

50 100g = P-S

 $Q = \frac{P}{100} - \frac{1}{20}$ 

9 is output for single fridge.

Total output for all 200 Fringe

$$Q_{\zeta} = \begin{pmatrix} \rho & -\frac{1}{20} \\ 100 & 20 \end{pmatrix} 200$$

Q=2P-10 (Supply curve)

## Residual Demand

Market Demand Qd= Qc + Qf

Or is output of large firm

Qr = Qd - Qf

= 110 - 10p - (2p - 10) = 110 - 10p + 10 - 2p  $Q_{p} = 120 - 12p$ 

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So Qr=120-12p is the residual demand

b 
$$Qr = 120 - 12p$$
 $12P = 120 - Qc$ 
 $P = 10 - Qc$ 
 $R = 10Qr - \frac{1}{12}Qr^2$  (Revenue)

 $R = dR = 10 - \frac{1}{6}Qr$ 
 $R = MC$ 
 $R = MC$ 

P = 10-30 = \$7.5

Substituting P=7.5 in fringe Supply Curve Qf=2p-10 = 202.87-10 Q = 5 Competive fringe produces 5 units Fringe Market Share = 5 = Dominant firm Market Share = 30 = 6 or 0.86 30+5 7