Chapter 2: 7,10

Chapter 3:5,6,8,

Chapter 2.7

a. Cigarette oursumption would fall by between 4.5% and 6.0%.

b. Assuming that organette price do not change. A 50% increase in income would cause sales of organistes to increase 25%. The weighted overage of all income elastilities equals 1, so ansumption of noncyclatte items would increase by nuve than 50% and certainly more than the 25% performance of organists.

Chapter 2.10

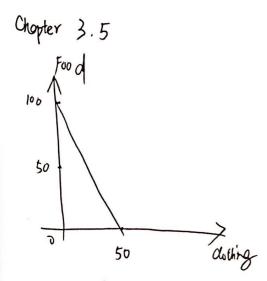
a.
$$\frac{\partial Q}{\partial I}$$
, $\frac{5000}{1000} = 20$

b.
$$\frac{\partial Q}{\partial P} \cdot \Delta P + \frac{\partial Q}{\partial I} \cdot \Delta I = 0$$

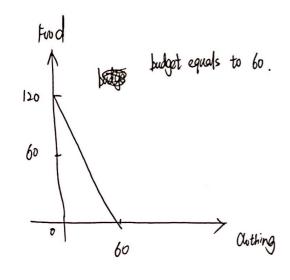
Solving ΔP , we can get $\Delta P = \frac{20}{3} = 6.67 .

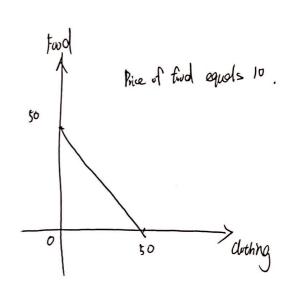
Price elasticity of demand =
$$\frac{\Delta Q}{Q} = \frac{\Delta Q}{\Delta P} \cdot \frac{P}{Q}$$

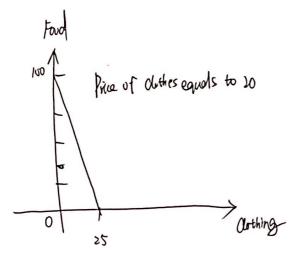
 $\frac{\Delta Q}{\Delta P}$ stays anstant, $\frac{P}{Q}$ increased => elasticity increased.



Chapter 3.6







Chapter 3.8

C. supe is
$$-\frac{Pr}{Px} = -\frac{1}{2}$$

e. The MRS is equal to the price votice inequilibrium. So, we have
$$MRS = \frac{RY}{RX} = \frac{50}{100} = 0.5$$