Week 4

Demand Response Curve

Latent Demand

Consumer Surplus

Properties

Linear Response Curve

Satiating Price

Elasticity

Constant Elasticity Curve

Revenue

Demand Response Curve

Latent Demand

refers to demand for a good or service that consumers cannot satisfy for three main reasons. First, the consumer does not have enough money to buy the item. Second, the item is not available. Third, the consumer does not know that the product or service is available.

Consumer Surplus

It's a measure of the additional benefit that consumers receive because they're paying less for something than what they were willing to pay.

Properties

- Non-negative
- Continuous
- Differentiable
- Downward sloping

Linear Response Curve

$$D(p) = D_0 - m * p$$

where D_0 is the demand at price 0 and

m is the slope

Week 4

Satiating Price

Price at which demand is 0

$$P_S = \frac{D_0}{m}$$

Elasticity

$$\epsilon = \frac{m*p}{D_0 - m*p}$$

Constant Elasticity Curve

$$D(p) = Cp^{\epsilon}$$

where \boldsymbol{C} is the demand when price is 1

Revenue

$$R = p * D = Cp^{1-\epsilon}$$