

Q8: Cigarettes — $\%\Delta Q = \epsilon \times \%\Delta P$

Gixen: E = -0.30 %AP = +15% Interpretation Quantity falls by 4.5%4.5% Q9: Elasticity at q=40 for Q=100-20p

Demand: 0 = 10000208/20 = 20000 -1.50

Q10: Revenue effect near Q=40 (Elastic)

Sinsa IFlin priet Q=Alademala is electionue (PxQ) rises.

Q11: Elasticity at P=2 for Q=100-20P

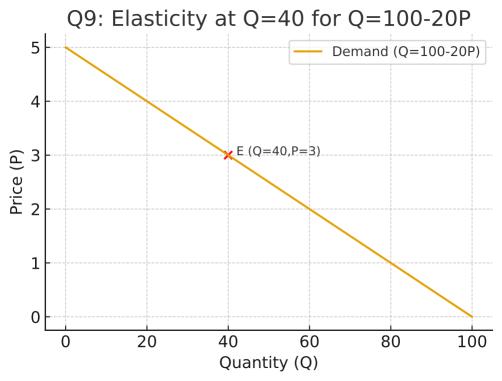
Demand: 0 = 100 - 20P (60 X (P/Q)) Interpretation Therastic (|E|<1). Q12: Revenue effect near P=2 (Inelastic)

Singa | Flimpriet == 1% demand in inchestionue (PxQ) rises.

Q13: Pricing with $\varepsilon = -0.5$ to raise Q by 10%

Given 5.5 Q:
$$1000 \rightarrow 1500 \Rightarrow 2\% Q = +10\%$$

New price 16 × (1000) $\rightarrow 2\% Q = +10\%$

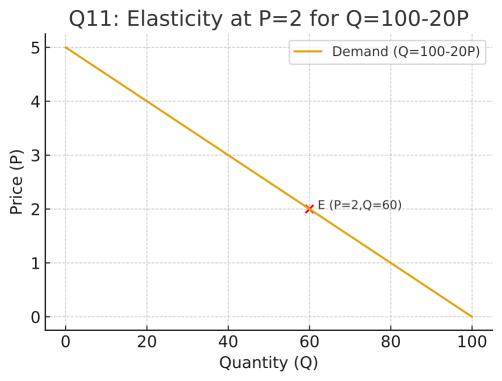


Q10: Revenue Effect (Elastic Region)

Since |E| > 1 at Q=40, demand is elastic.

Small \downarrow in price \Rightarrow % $\Delta Q > |%\Delta P| \Rightarrow$ Revenue (P $\times Q$) rises.

Interpretation: Elastic region \rightarrow price cuts raise revenue.



Q12: Revenue Effect (Inelastic Region)

Since |E| < 1 at P=2, demand is inelastic.

Small ↑ in price \Rightarrow |% Δ Q| < % Δ P \Rightarrow Revenue (P×Q) rises.

Interpretation: Inelastic region → higher prices raise revenue.