

## Question from practice

#14  $q = 80 - 2p$   $0 \leq p \leq 40$

Find price elasticity of D

$$E = -\frac{dq}{dp} \cdot \frac{p}{q}$$

Find  $q = \dots p$   
\*only way to solve for elasticity - has to be in this format\*

Step 1 Find  $\frac{dq}{dp} = -2$  \* Is a constant

Step 2  $E = -(-2) \cdot \frac{p}{80-2p}$  then clean up algebra

$$E = \frac{2p}{40-2p} = \frac{p}{40-p}$$

Formula for elasticity of D.