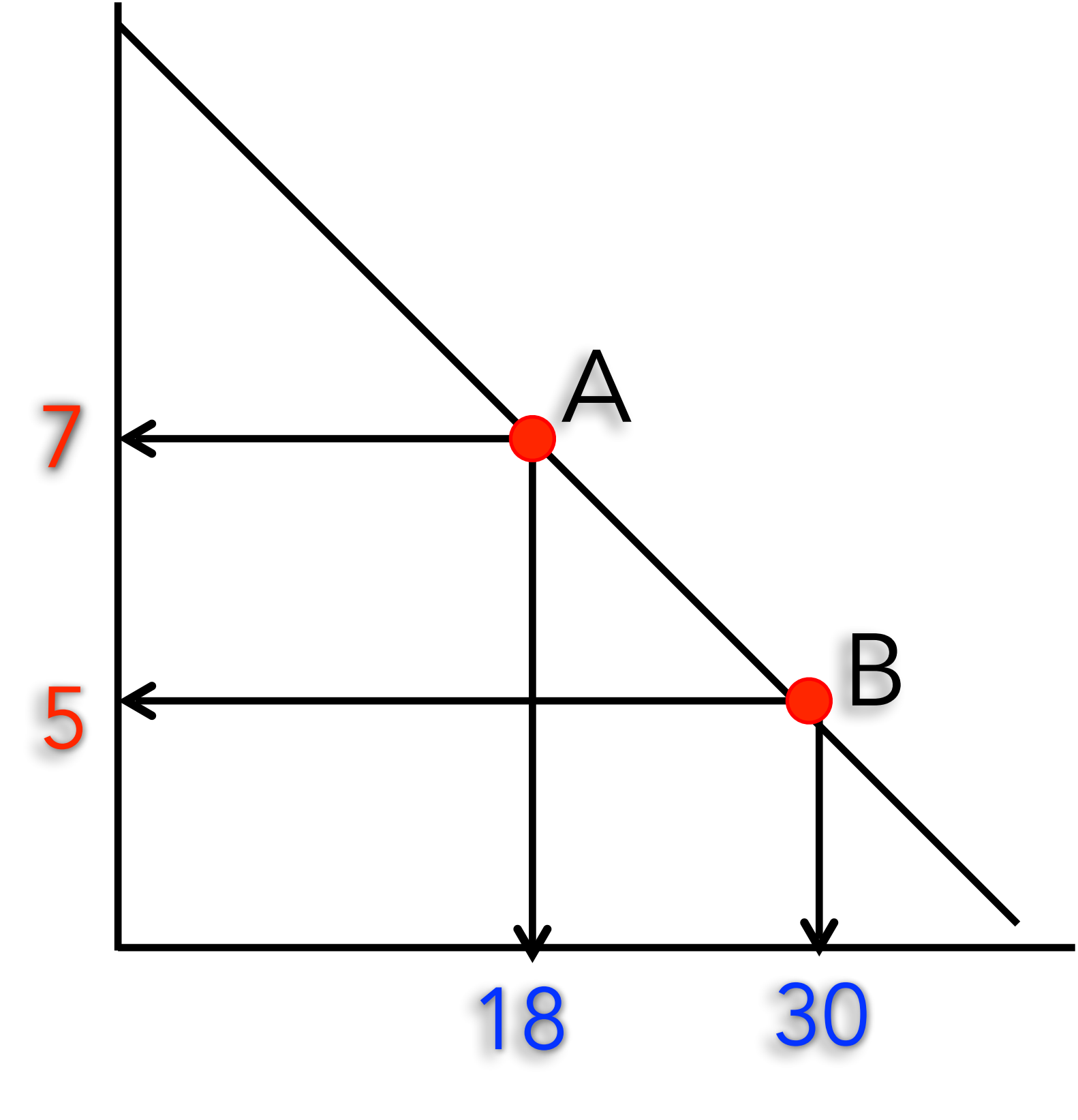
$$e_p^d = \frac{\%\Delta Q^d}{\%\Delta \text{Price}}$$

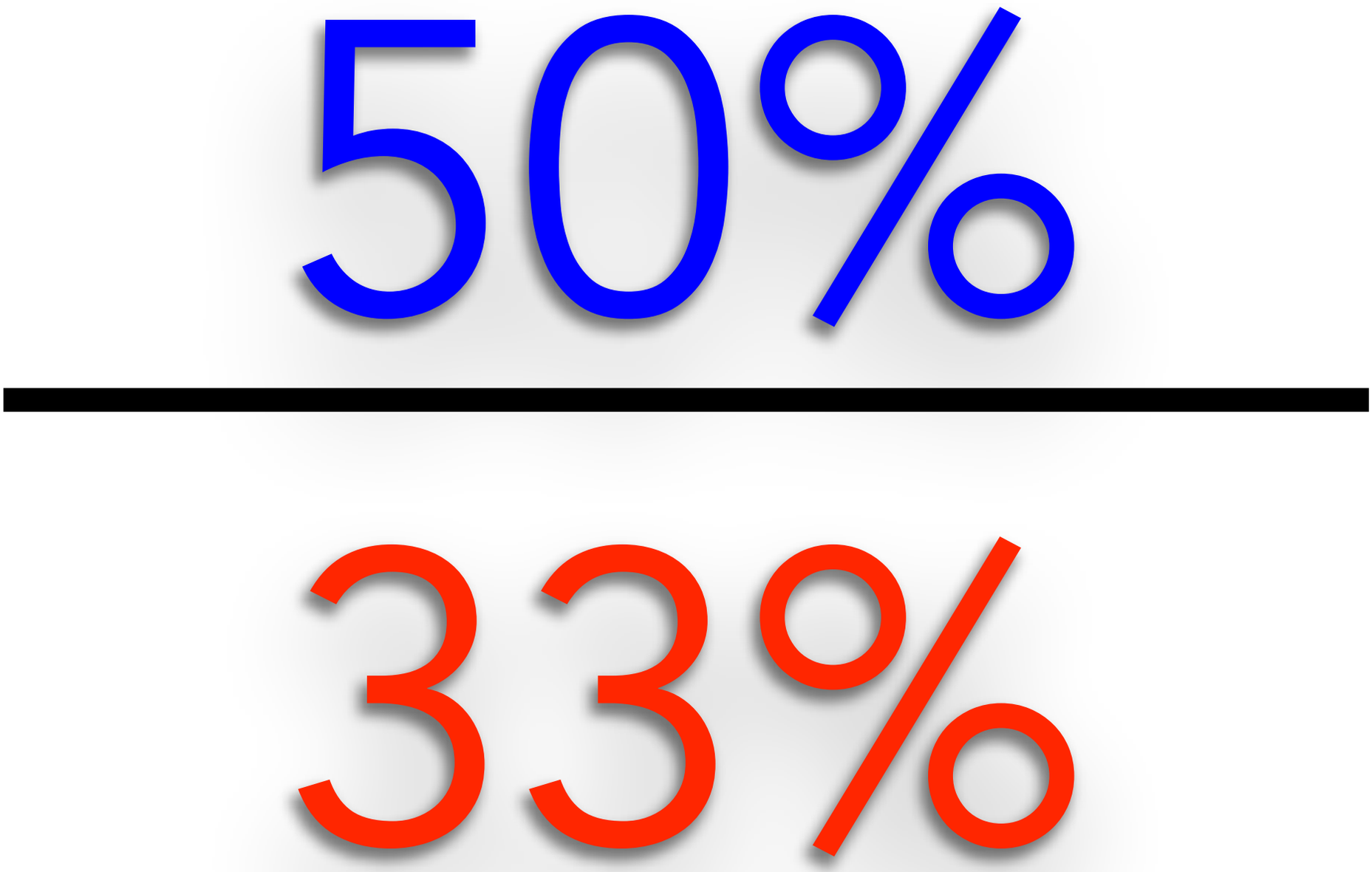
Price	Quantity Demanded


A
B
7
5
18
30

7

18

30


50%
33%

$$= 1.51$$

Change in Q^d

$30 - 18 = 12$

Average quantity:

(30+18)/2 = 24

$$\%\Delta Q^{d}$$

$$12/24 = 0.5 \times 100 = 50\%$$

Change in price

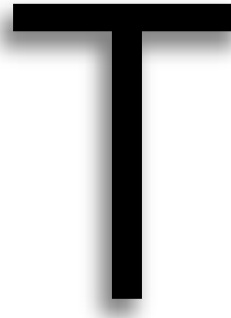
7 - 5= 2

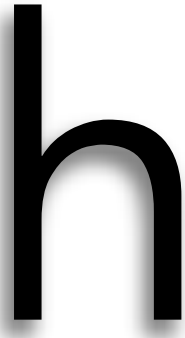
Average price

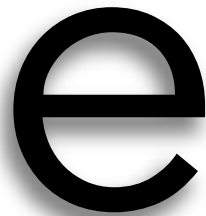
$(7+5)/2 = 6$

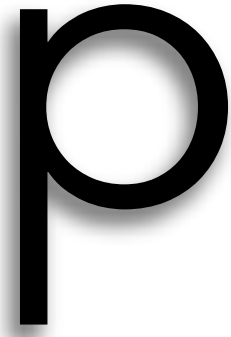
%Δ Price

2/6 = 0.33x100=33%

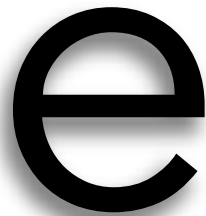


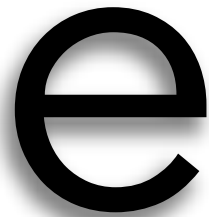






r

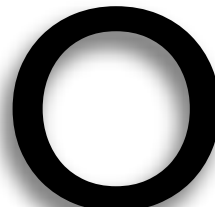


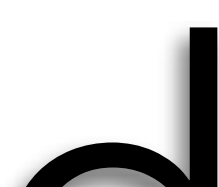


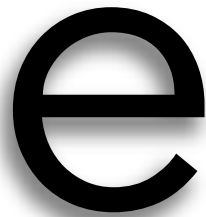
a

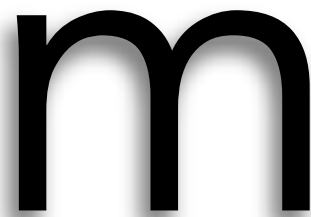
S

y









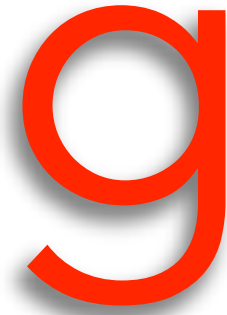
a

n

S

a

a



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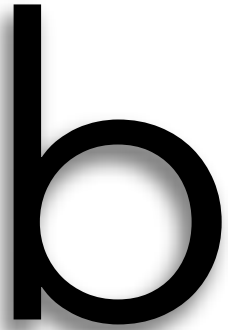
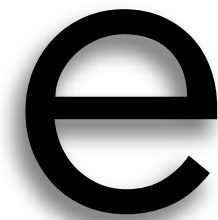
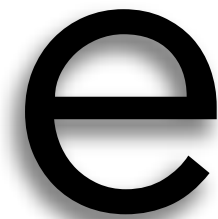


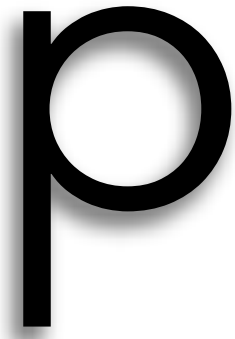


a

u

S





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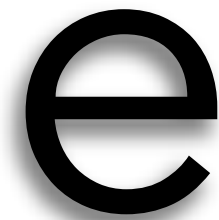
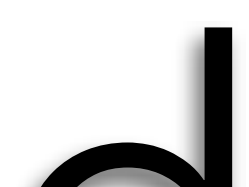
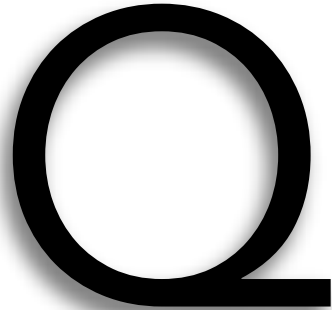
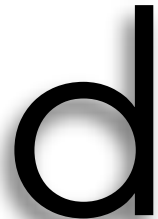


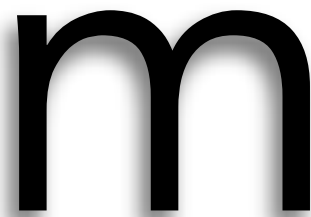
a

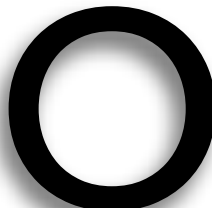
n

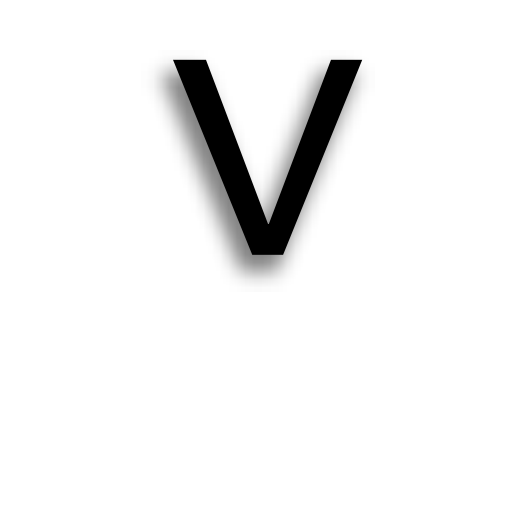


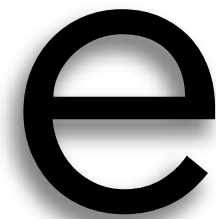












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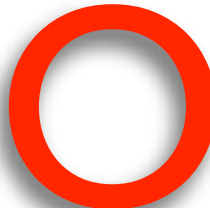
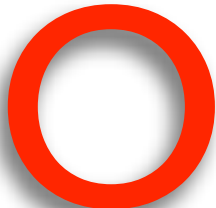
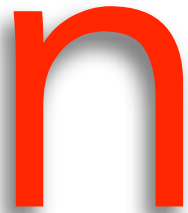
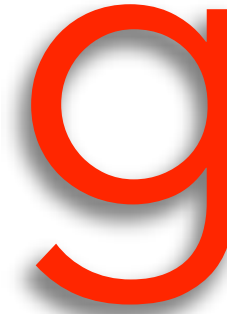


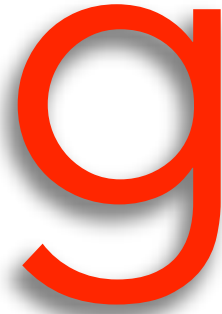




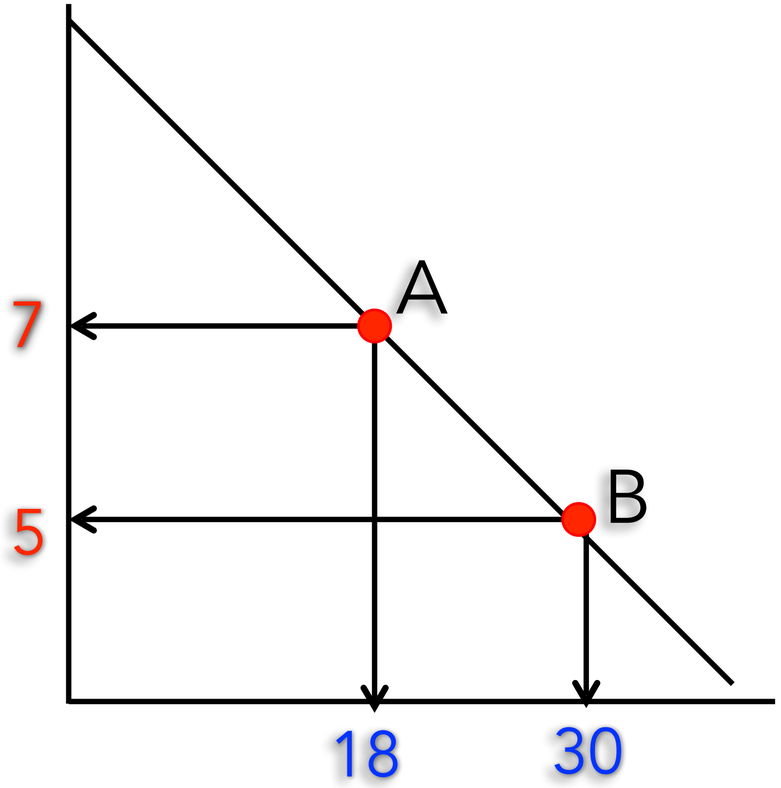
a

a





The price elasticity of demand is always negative because price and Q^d move in opposite directions: add a negative sign



Price	Quantity Demanded
7	18
5	30

Change in Q^d

30 - 18 = 12

Average quantity:

(30+18)/2 = 24

$\%\Delta Q^d$

12/24 = 0.5x100 =50%

Change in price

7 - 5= 2

Average price

(7+5)/2 = 6

$\%\Delta$ Price

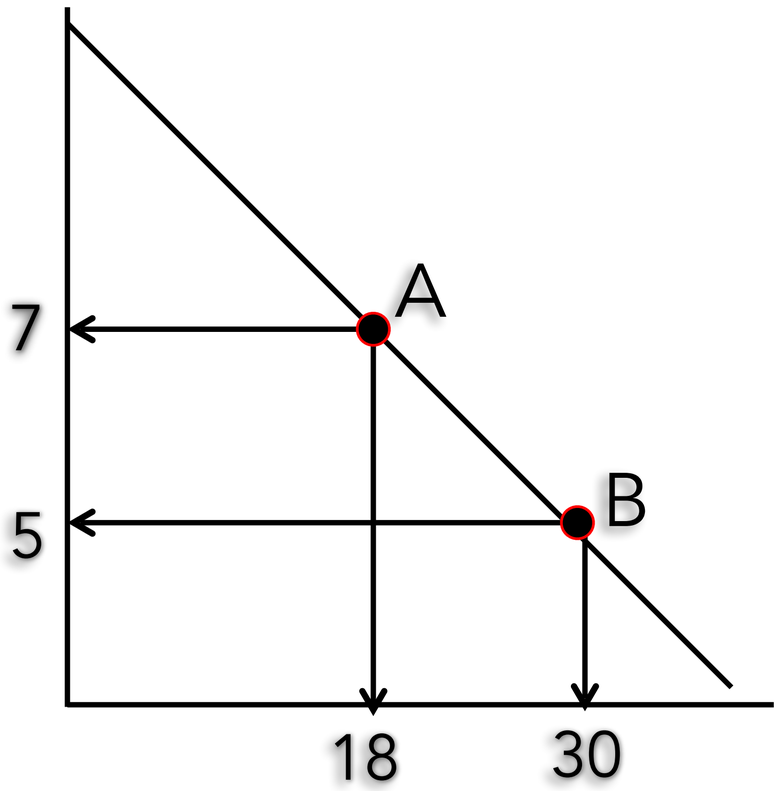
2/6 = 0.33x100=33%

$$e_p{}^d = \frac{\%\Delta Q^d}{\%\Delta \text{Price}} = \frac{50\%}{33\%} = -1.51$$

The price elasticity of demand is always negative

because price and Q^d move in opposite directions:

add a negative sign


A
B
7
5
18
30