

Assignment # 2 :-

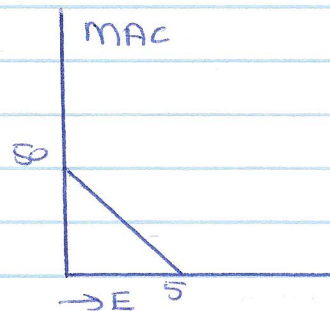
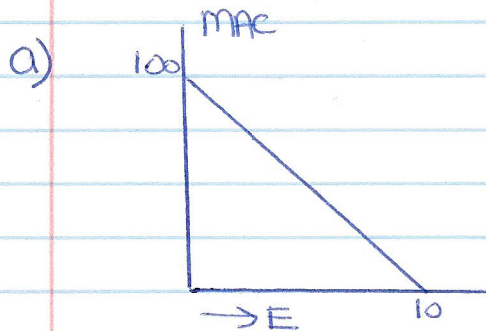
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Question #1

$$MAC_1 = 100 - 10E$$

$$MAC_2 = 50 - 10E$$



firm 1:- $MAC = 100 - 10E$

$$MAC = 100$$

$$0 = 100 - 10E$$

$$E = 10$$

firm 2:- $MAC = 50 - 10E$

$$MAC = 50$$

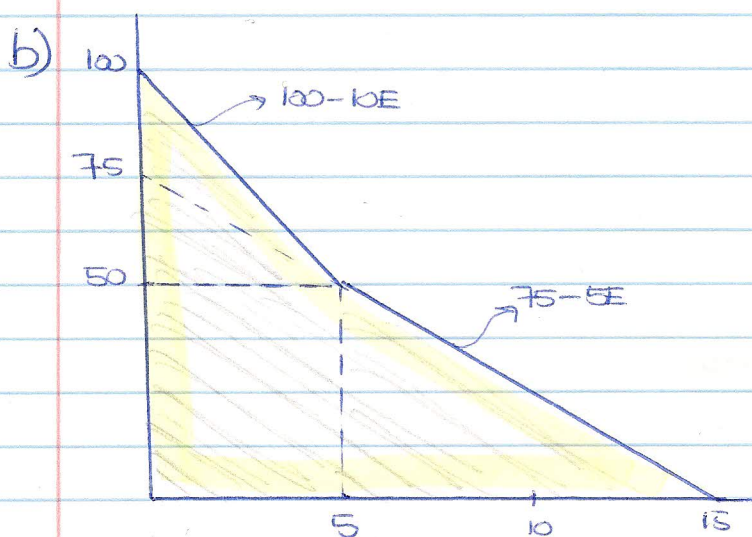
$$0 = 50 - 10E$$

$$E = 5$$

$$TAC_1 = 100(10)\left(\frac{1}{2}\right) = \$500$$

$$TAC_2 = 50(5)\left(\frac{1}{2}\right) = \$125$$

$$\text{Aggregate TAC} = 500 + 125 = \$625$$



$$MAC_1 = 100 - 10E_1$$

$$10E_1 = 100 - MAC_1$$

$$E_1 = 10 - 0.1 MAC_1$$

$$MAC_2 = 50 - 10E_2$$

$$10E_2 = 50 - MAC_2$$

$$E_2 = 5 - 0.1 MAC_2$$

$$E_1 + E_2 = E = 15 - 0.2 MAC$$

$$5E = 75 - MAC$$

$$\Rightarrow MAC = 75 - 5E$$