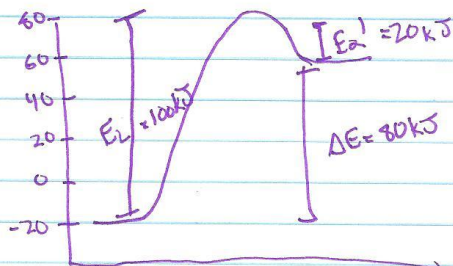


LAB ONLY

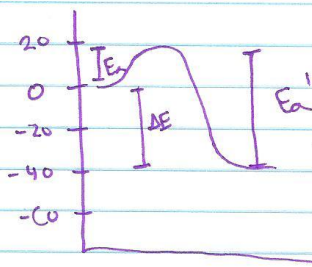
HW #30 p581 #1-7

(6) (a)



$$\Delta E_{\text{REVERSE}} = -80 \text{ kJ}$$

(B)



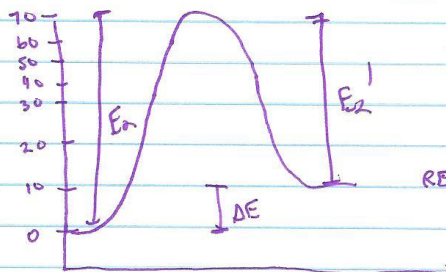
$$\Delta E_{\text{FORWARD}} = -40 \text{ kJ}$$

$$\Delta E_{\text{REVERSE}} = 40 \text{ kJ}$$

$$E_a = 20 \text{ kJ}$$

$$E_a' = 60 \text{ kJ}$$

(C)



$$E_a = 70 \text{ kJ}$$

$$E_a' = 60 \text{ kJ}$$

$$\Delta E = 10 \text{ kJ}$$

$$\text{REVERSE } \Delta E = 40 \text{ kJ}$$

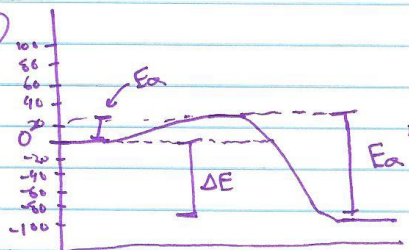
(7) (B)

$$\Delta E_F = 95 \text{ kJ}$$

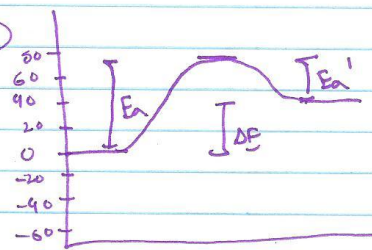
$$\Delta E_R = 95 \text{ kJ}$$

$$E_a = 20$$

$$E_a' = 115 \text{ kJ}$$



(C)



$$\text{Forward } \Delta E = +40 \text{ kJ}$$

$$E_a = 70 \text{ kJ}$$

$$\text{Reverse } \Delta E = -40 \text{ kJ}$$

$$E_a' = 30 \text{ kJ}$$