

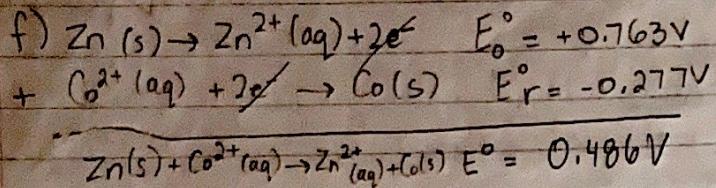
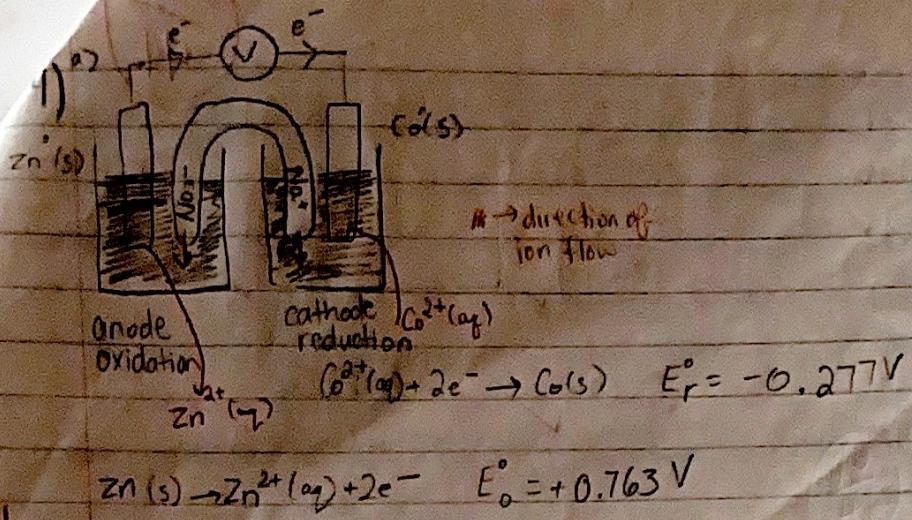
Electrochemistry In-Class Assignment

81%

MC /10 marks

KU /6 marks **TOTAL** /41 marks

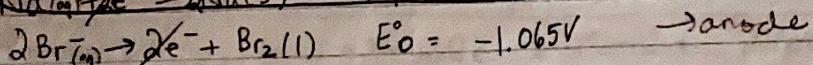
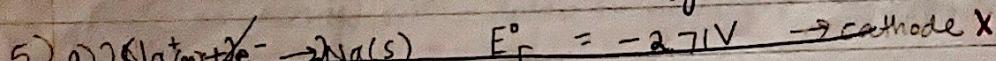
| /25 marks



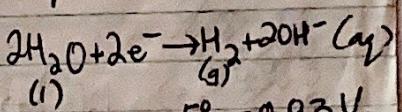
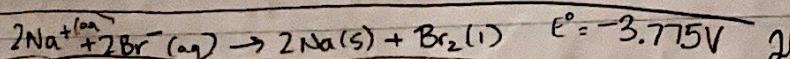
g) $\text{Zn} \rightarrow$ reducing agent
 $\text{Co}^{2+} \rightarrow$ oxidizing agent \times

(Ignore this line)

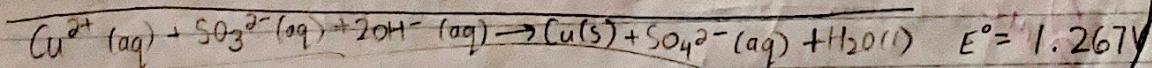
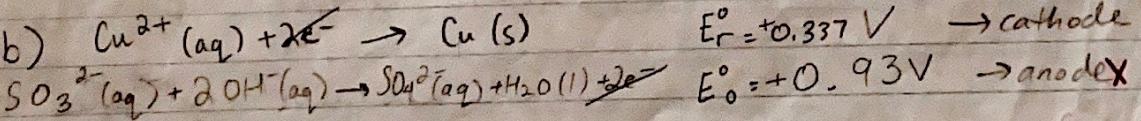
cathode
bec. more
likely
to occur



put in H_2O rxn \rightarrow



$E_r^\circ = 0.83\text{ V}$



\therefore the min. voltage is 1.267 V

min. voltage \rightarrow add up

$E^\circ = 0.83 + (-1.065) = -1.895$

min voltage \rightarrow flip so 1895 Hilary

981.

(33)
41

a) $x - 6 = -1$

$x = -1 + 6$

$x = +5$ ✓

b) NiSO_4

$(2+1+4-8)=0$

$x = 8-2$

$x = +6$ ✓

c) KClO_3

$+1+x-6=0$

$x = 6-1$

$x = +5$ ✓

b
Ku

d) $\text{Cr}_2\text{O}_7^{2-}$

$2x - 14 = -2$

$2x = -2 + 14$

$2x = 12$

$x = +6$ ✓

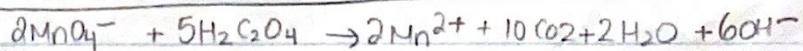
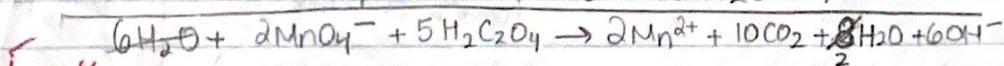
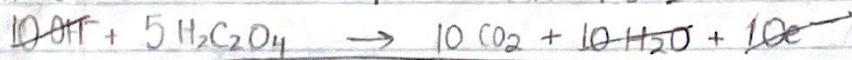
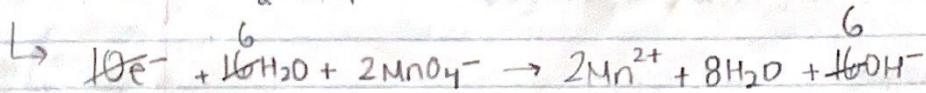
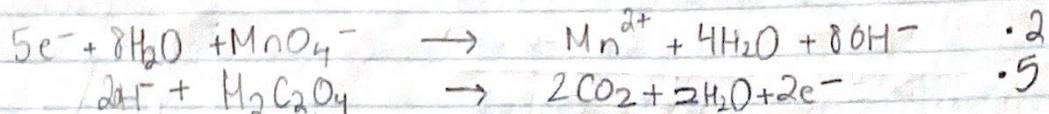
e) O ✓

f) $\text{C}_2\text{O}_4^{2-}$

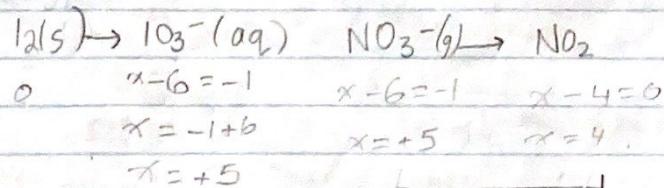
$2x - 8 = -2$

$x = \frac{-2+8}{2}$

$x = +3$ ✓



O_2 does
not need
the redox



2 mc

