oxid	dizing agent					\ \
4 pc	ucing agent  pints				<i>f</i> "	\ \ \
	t is the coefficient of lead ions are balanced?	Pb →	edox reaction Pb <sup>2+</sup> + 2e <sup>-</sup> 3e <sup>-</sup> → Fe		following ha	ılf-
4 po	oe your answer  Dints  t is the sum of coefficient	s in the redo	ox reaction a	fter the fol	lowing half-r	eaction
are b	alanced? De your answer	$AI \longrightarrow$	Al <sup>3+</sup> + 3e <sup>-</sup> 2e <sup>-</sup> → Cu			
In th	oints e reaction of thiosulfate id cing agent?	on with chlo	-			s the
	$CI_{2}(g) + S$ $CI_{2}(g) + S$ $CI_{2}(g) + S$ $CI_{2}(g) + S$	2 <sup>O</sup> 3 <sup>−</sup> (aq)	→ Cr (aq	) + 304- (	aq)	
l i	S <sup>2+</sup> points  note the following redox re					
follo	Nb ces below are the sum of wed by the total number and/or $H^+$ you added. Pio $9 \longrightarrow 7$ , $12e^-$	of electrons	efficients — transferred.	→ sum of pr	oduct coeffic	
0	$8 \longrightarrow 10$ , $6e^{-}$ $9 \longrightarrow 11$ , $12e^{-}$ $3 \longrightarrow 4$ , $4e^{-}$ $12 \longrightarrow 17$ , $4e^{-}$					
	$9 \longrightarrow 11$ , $4e^{-}$ $12 \longrightarrow 17$ , $12e^{-}$					
Wha	t is the coefficient on H <sup>†</sup> v product or reactant? MnO <sub>4</sub> <sup>-</sup> 4, product	when you ba				n acid?
0000	<ul><li>0, neither</li><li>6, product</li><li>2, reactant</li><li>3, product</li></ul>					
0000	6, reactant 4, reactant 3, reactant 2, product					
Base	oints d on the push and pull of ies being oxidized is also t		a redox rea	ction, it can	be inferred t	that the
0 0 0	oxidizer reducing agent strong acid oxidizing agent					
Wha	oints t is the change in oxidation?	on number of	f sulfur whe	n SO <sub>3</sub> react	s to form SO	¯ in a re
4 po	oe your answer  pints  n Na <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> reacts to for	_	he Cr atom	gets	and the ch	nange in
	reduced, -6 reduced, -3 oxidized, -6	_	-JIII		હ પા	۱۱ - ر
	reduced, +3 oxidized, +3 oints					
A me	ethanol fuel source (CH <sub>3</sub> Coer for carbon? Is this an oether +2, oxidation -1, oxidation			_	the change ir	n oxida
) 0 0 0 0	+6, oxidation +6, reduction 0, this is not a redox half -1, reduction +5, oxidation	f-reaction				
000	+5, oxidation +1, oxidation +1, reduction -3, reduction					
Wha	oints t is the oxidation number be your answer	of chlorine i	n ClO <sub>4</sub> ?			
Wha	t is the oxidation number	of sulfur in S	SO <sub>4</sub> <sup>2-</sup> ?			
2 pc	oints t is the oxidation number	of an indivic	dual sulfur ir	thiosulfate	e, S <sub>2</sub> O <sub>3</sub> <sup>2-</sup> ?	
2 pc	oe your answer  pints  t is the oxidation number	of phosphor	rus in hydro	gen nhosnh	ate HP∩. <sup>2-</sup>	7
	oe your answer					
	zinc node  1 M Zn <sup>2+</sup> (aq)  is electrochemical cell, where $Zn^{2+}(aq) + 2e^- \rightarrow Zn(sq)$ $Cu^{2+}(aq) + 2e^- \rightarrow Cu(sq)$	5)	1 M Cu <sup>2+</sup>	(+) (aq)	per node	
In th	zinc node 1 M Zn <sup>2+</sup> (aq) is electrochemical cell, where $Zn^{2+}(aq) + 2e^- \longrightarrow Zn(sq)$ $Cu^{2+}(aq) + 2e^- \longrightarrow Cu(sq)$ $Zn(s) \longrightarrow Zn^{2+}(aq) + 2e^-$ $Zn(s) \longrightarrow Cu^{2+}(aq) + 2e^-$	salt bridge  nat is the red  s)	1 M Cu <sup>2+</sup>	(+)		
In thi	zinc node  1 M Zn <sup>2+</sup> (aq)  is electrochemical cell, what $Zn^{2+}(aq) + 2e^- \longrightarrow Zn(sq)$ $Zn^{2+}(aq) + 2e^- \longrightarrow Cu(sq)$ $Zn(s) \longrightarrow Zn^{2+}(aq) + 2e^ Zn(s) \longrightarrow Cu^{2+}(aq) + 2e^-$ ints  ider the cell reaction reproduction of the coll reaction reproduction r	salt bridge  nat is the red  s)  resented by the red  the Ti <sup>2+</sup> (aq) the for this red  q)   Mn(s)	the skeletal $\longrightarrow$ $Mn^{2+}$	cath (+) reaction?	iode	
In th	zinc node  (-)  1 M Zn <sup>2+</sup> (aq)  is electrochemical cell, when $Zn^{2+}(aq) + 2e^{-} \longrightarrow Zn(s)$ $Cu^{2+}(aq) + 2e^{-} \longrightarrow Cu(s)$ $Zn(s) \longrightarrow Zn^{2+}(aq) + 2e^{-}$ $Cu(s) \longrightarrow Cu^{2+}(aq) + 2e^{-}$ ints  ider the cell reaction representation is the proper cell diagram.	salt bridge  nat is the red  s)  resented by the second of	the skeletal $\longrightarrow$ $Mn^{2+}$	cath (+) reaction?	iode	
In th O O O Cons Wha O O Cons Zn(s)	zinc node  (-)  1 M Zn <sup>2+</sup> (aq)  is electrochemical cell, what $Zn^{2+}(aq) + 2e^{-} \longrightarrow Zn(s)$ $Zn^{2+}(aq) + 2e^{-} \longrightarrow Cu(s)$ $Zn(s) \longrightarrow Zn^{2+}(aq) + 2e^{-}$ $Zn(s) \longrightarrow Cu^{2+}(aq) + 2e^{-}$ Cu(s) $Zn^{2+}(aq) + 2e^{-}$ is the proper cell diagram $Zn^{2+}(aq) = 2e^{-}$ is the proper cell diagram $Zn^{2+}(aq) = 2e^{-}$ $Zn^{2+}(aq) = 2e^$	salt bridge  nat is the red  s)  resented by the second of	the skeletal $\longrightarrow$ $Mn^{2+}$	cath (+) reaction?	iode	
In th O O O Cons Wha O O Cons Zn(s)	zinc node  (-)  1 M Zn <sup>2+</sup> (aq)  is electrochemical cell, where $Z_1$ and $Z_2$ and $Z_3$ are $Z_4$ and $Z$	salt bridge  nat is the red  s)  resented by the second of	the skeletal $\longrightarrow$ $Mn^{2+}$	cath (+) reaction?	iode	
In thi O O O O O O O O O O O O O O O O O O O	zinc node  (-)  I M $Zn^{2+}(aq)$ is electrochemical cell, where $Zn^{2+}(aq) + 2e^- \rightarrow Zn(s)$ $Zn(s) \rightarrow Zn^{2+}(aq) + 2e^- \rightarrow Cu(s)$ $Zn(s) \rightarrow Zn^{2+}(aq) + 2e^-$ Cu(s) $\rightarrow Cu^{2+}(aq) + 2e^-$ bints  ider the cell reaction reproduction is the proper cell diagram $Ti(s) \mid Ti^{2+}(aq) \mid Mn^{2+}(aq) \mid Mn^{2+}(aq) \mid Mn^{2+}(aq) \mid Ti^{2+}(aq) \mid Ti^{2+}($	resented by the triangle of tr	the skeletal  → Mn <sup>2+</sup> (action?	cath (+) (aq)  reaction?  equation: aq) + Ti(s)	node	bridge
In the O O O O O O O O O O O O O O O O O O O	zinc node  I M Zn²+(aq)  is electrochemical cell, where $Z_1^2$ +(aq) + 2e $^ Z_1^2$ -(aq)   $Z_1^2$ -(aq)	resented by the triangle of the cation is the red and is the red a	the skeletal  → Mn <sup>2+</sup> (action?	equation: aq) + Ti(s)	ns in the salt	bridge
1	zinc node  I M Zn²+(aq)  is electrochemical cell, wh Zn²+(aq) + 2e⁻ → Zn(s)  Cu²+(aq) + 2e⁻ → Cu(s)  Zn(s) → Zn²+(aq) + 2e  Cu(s) → Cu²+(aq) + 2e  cu(s) → Cu²+(aq)   Ti²+(aq)   Mn²+(aq)   Mn²+(aq)   Mn(s)   Ti(s)    Mn(s)   Mn²+(aq)   Mn(s)   Ti²+(aq)	salt bridge  at is the red  at is the red  by  resented by  + Ti <sup>2+</sup> (aq)  n for this rea  q)   Mn(s)    Ti <sup>2+</sup> (aq)  aq)   Ti(s)  Mn <sup>2+</sup> (aq)  tell (a voltaic  ce of the cation  ard voltaic of  Cu <sup>2+</sup> +	the skeletal  → Mn <sup>2+</sup> (action?	equation: aq) + Ti(s)  one is "+" of the following is the	ns in the salt	
1	zinc node  I M Zn²+(aq)  is electrochemical cell, who Zn²+(aq) + 2e² → Zn(s)  Cu²+(aq) + 2e² → Cu(s)  Zn(s) → Zn²+(aq) + 2e  Cu(s) → Cu²+(aq) + 2e  coints  ider the cell reaction reprosent Mn(s) + 2e  ints  ider the cell reaction reprosent Mn(s)   Mn²+(aq)   Mn²+(	salt bridge  at is the red  at is the red  by  resented by  + Ti <sup>2+</sup> (aq)  n for this rea  q)   Mn(s)    Ti <sup>2+</sup> (aq)  aq)   Ti(s)  Mn <sup>2+</sup> (aq)  tell (a voltaic  ce of the cation  ard voltaic of  Cu <sup>2+</sup> +	the skeletal $\rightarrow$ Mn <sup>2+</sup> (action?	equation: aq) + Ti(s)  one is "+" of the following is the	ns in the salt	
1	zinc node  (-)  (-)  (-)  (-)  (-)  (-)  (-)  (-	salt bridge  at is the red  cesented by the second size of this read  and is the red  and is t	or a battery on.  wif the cath  ell made fro $2e^{-} \rightarrow Cu$ $2e^{-} \rightarrow Mg$	equation: aq) + Ti(s)  on the following the	ns in the salt or "-".	
1 th	zinc node  (-)  I M Zn²+(aq)  is electrochemical cell, where $Z$ is electrochemical cell, $Z$ is $Z$	salt bridge  nat is the red s) ) resented by the second of the second of the cation of the second of	the skeletal $\rightarrow$ Mn <sup>2+</sup> (action?  wif the cather the skeletal $\rightarrow$ Mn <sup>2+</sup> (action?	cath (aq) reaction? equation: aq) + Ti(s) mode is "+" of the following anode and	ns in the salt or "-". wing half-rea	ctions
1 th	zinc node  I M Zn²+(aq)  is electrochemical cell, who Zn²+(aq) + 2e → Zn(s)  Cu²+(aq) + 2e → Cu(s)  Zn(s) → Zn²+(aq) + 2e  Cu(s) → Cu²+(aq) + 2e  cu(s) → Cu²+(aq)   Mn²+(aq)   Mn²+(aq)   Mn(s)   Mn²+(aq)   Mn(s)   Mn²+(aq)   Mn(s)	salt bridge  at is the red  at is th	the skeletal $\rightarrow$ Mn <sup>2+</sup> (action?  wif the cather the skeletal $\rightarrow$ Mn <sup>2+</sup> (action?	cath (aq) reaction? equation: aq) + Ti(s) mode is "+" of the following anode and	ns in the salt or "-". wing half-rea	ctions
1 th	zinc node  I M Zn²+(aq)  is electrochemical cell, where the cell is the proper cell diagram Ti(s)   Ti²+(aq)   Mn(s)   Ti(s)   Mn(s)	salt bridge  at is the red  at is th	the skeletal $\rightarrow$ Mn <sup>2+</sup> (action?  wif the cathell made fro $2e^- \rightarrow Cu$ $2e^- \rightarrow Mg$	cath (aq) reaction? equation: aq) + Ti(s) mode is "+" of the following anode and	ns in the salt or "-". wing half-rea	ctions
n th O O O O O O O O O O O O O O O O O O	is electrochemical cell, where the cell reaction reproduces and repro	salt bridge  at is the red  at is the red  by  resented by  + Ti <sup>2+</sup> (aq)  af or this rea  q)   Mn(s)   Ti <sup>2+</sup> (aq)  aq)   Ti(s)  Mn <sup>2+</sup> (aq)  cell (a voltaic  c Cu <sup>2+</sup> +  Mg <sup>2+</sup> +  Al <sup>3+</sup> +  ard electroly  Ag <sup>+</sup> +  Al <sup>3+</sup> +	the skeletal $\rightarrow$ Mn <sup>2+</sup> (action?  or a battery on.  wif the cathering of the skeletal $\rightarrow$ Mn <sup>2+</sup> (action?  diffusion of the cathering of the skeletal $\rightarrow$ Mn <sup>2+</sup> (action?  or a battery on.  diffusion of the skeletal $\rightarrow$ Mn <sup>2+</sup> (action?  or a battery on.	cath (aq) reaction? equation: aq) + Ti(s) mode is "+" of the following anode and	ns in the salt or "-". wing half-rea	ctions
n th OOO 4 ph Construction of OOO 4 ph Constru	is electrochemical cell, where the cell reaction reproduces and reproduc	salt bridge  at is the red  at is the red  by  resented by  + Ti <sup>2+</sup> (aq)  af or this rea  q)   Mn(s)   Ti <sup>2+</sup> (aq)  aq)   Ti(s)  Mn <sup>2+</sup> (aq)  cell (a voltaic  c Cu <sup>2+</sup> +  Mg <sup>2+</sup> +  Al <sup>3+</sup> +  ard electroly  Ag <sup>+</sup> +  Al <sup>3+</sup> +	the skeletal $\rightarrow$ Mn <sup>2+</sup> (action?  or a battery on.  wif the cathering of the skeletal $\rightarrow$ Mn <sup>2+</sup> (action?  diffusion of the cathering of the skeletal $\rightarrow$ Mn <sup>2+</sup> (action?  or a battery on.  diffusion of the skeletal $\rightarrow$ Mn <sup>2+</sup> (action?  or a battery on.	cath (aq) reaction? equation: aq) + Ti(s) mode is "+" of the following anode and	ns in the salt or "-". wing half-rea	ctions
n th O O O O O O O O O O O O O O O O O O	zinc node  In M Zn²-(aq)  is electrochemical cell, where $Z_1$ (aq) + $Z_2$ and $Z_1$ (aq)   $Z_$	salt bridge  at is the red  at is the red  by  resented by  + Ti <sup>2+</sup> (aq)  af or this rea  q)   Mn(s)   Ti <sup>2+</sup> (aq)  aq)   Ti(s)  Mn <sup>2+</sup> (aq)  cell (a voltaic  c Cu <sup>2+</sup> +  Mg <sup>2+</sup> +  Al <sup>3+</sup> +  ard electroly  Ag <sup>+</sup> +  Al <sup>3+</sup> +	the skeletal $\rightarrow$ Mn <sup>2+</sup> (action?  or a battery on.  wif the cathering of the skeletal $\rightarrow$ Mn <sup>2+</sup> (action?  diffusion of the cathering of the skeletal $\rightarrow$ Mn <sup>2+</sup> (action?  or a battery on.  diffusion of the skeletal $\rightarrow$ Mn <sup>2+</sup> (action?  or a battery on.	cath (aq) reaction? equation: aq) + Ti(s) mode is "+" of the following anode and	ns in the salt or "-". wing half-rea	ctions
n th O O O O O O O O O O O O O O O O O O	zinc node  I M Zn²-(aq)  is electrochemical cell, wh Zn²-(aq) + 2e $^-$ — Zn(s $Zn(s) \rightarrow Zn²^+(aq) + 2e^-$ — Cu(s) $Zn(s) \rightarrow Zn²^+(aq) + 2e^-$ Cu(s) $\rightarrow Zn²^+(aq) + 2e^-$	salt bridge  at is the red  at is the red  by  resented by  + Ti <sup>2+</sup> (aq)  af or this rea  q)   Mn(s)   Ti <sup>2+</sup> (aq)  aq)   Ti(s)  Mn <sup>2+</sup> (aq)  cell (a voltaic  c Cu <sup>2+</sup> +  Mg <sup>2+</sup> +  Al <sup>3+</sup> +  ard electroly  Ag <sup>+</sup> +  Al <sup>3+</sup> +	the skeletal $\rightarrow$ Mn <sup>2+</sup> (action?  or a battery on.  wif the cathering of the skeletal $\rightarrow$ Mn <sup>2+</sup> (action?  diffusion of the cathering of the skeletal $\rightarrow$ Mn <sup>2+</sup> (action?  or a battery on.  diffusion of the skeletal $\rightarrow$ Mn <sup>2+</sup> (action?  or a battery on.	cath (aq) reaction? equation: aq) + Ti(s) mode is "+" of the following anode and	ns in the salt or "-". wing half-rea	ctions
n th O O O O O O O O O O O O O O O O O O	zinc node  I M Zn²-(aq)  Is electrochemical cell, who zn²-(aq) + 2e $^-$ — Zn(scou²-(aq) + 2e $^-$ — Cu(scou²-(aq) + 2e $^-$ — Cu(scounts)  I is the proper cell diagram  Ti(s)   Ti²-(aq)   Mn(s)   Ti²-(aq)   Mn(s)   Mn²-(aq)   Mn(s)   Mn²-(aq)   Ti²-(aq)	salt bridge  at is the red  at is the red  b)  cresented by the second of this red  g)   Mn(s)    Ti2+(aq)  aq)   Ti(s)  Mn2+(aq)  I(s)   Ag(s)  ard voltaic of the cation  ard voltaic	the skeletal $\rightarrow$ Mn <sup>2+</sup> (action?  or a battery on.  wif the cather action?  diffy the solid action and action are $\rightarrow$ Ag and $\rightarrow$ Ag are $\rightarrow$ Al questions:	equation: aq) + Ti(s)  anode is "+" of the following anode and anode and anode and anode and anode ano	ns in the salt or "-". wing half-rea	ctions
n th	zinc node  I M $Z^{2}$ -(aq)  Is electrochemical cell, where $Z^{2}$ -(aq) + $Z^{2}$ -(aq)   $Z^{2$	salt bridge  at is the red  at is the red  b)  cresented by the second of this red  g)   Mn(s)    Ti2+(aq)  aq)   Ti(s)  Mn2+(aq)  I(s)   Ag(s)  ard voltaic of the cation  ard voltaic	the skeletal $\rightarrow$ Mn <sup>2+</sup> (action?  or a battery on.  wif the cather action?  diffy the solid action and action are $\rightarrow$ Ag and $\rightarrow$ Ag are $\rightarrow$ Al questions:	equation: aq) + Ti(s)  anode is "+" of the following anode and anode and anode and anode and anode ano	ns in the salt or "-". wing half-rea	ctions
n th O O O O O O O O O O O O O O O O O O	is electrochemical cell, where $I$ is electrochemical cell $I$ is the proper cell diagram. Ti(s) $I$ Ti <sup>2+</sup> (aq) $I$ Mn(s) $I$ Ti(s) $I$ Ti <sup>2+</sup> (aq) $I$ Mn(s) $I$	salt bridge  at is the red  at is th	the skeletal  And Cu²+  Iuction half  the skeletal  And Mn²+(  action?  or a battery  on.  wif the cath  direction and  rectic cell mad  rection and  rection an	equation: aq) + Ti(s)  anode is "+"  anode and  e from the anode and  ethery possion	ns in the salt or "-". cathode. following half	ctions?
n th O O O O O O O O O O O O O O O O O O	zinc node  I M Zn²-(laq)  is electrochemical cell, wh Zn²-(laq) + 2e² → Zn(s  Cu²-(laq) + 2e² → Cu(s  Zn(s) → Zn²-(laq) + 2e²  Cu(s) → Cu²-(laq) + 2e²  cous) → Cu²-(laq) + 2e²  cous) → Cu²-(laq) + 2e²  coints  ider the cell reaction reprodunts  it is the proper cell diagrant  Ti(s)   Ti²-(laq)   Mn²-(laq)	salt bridge  at is the red  at is th	the skeletal  And Cu²+  Iuction half  the skeletal  And Mn²+(  action?  or a battery  on.  wif the cath  direction and  rectic cell mad  rection and  rection an	equation: aq) + Ti(s)  anode is "+"  anode and  e from the anode and  ethery possion	ns in the salt or "-". cathode. following half	ctions?
n th O O O O O O O O O O O O O O O O O O	zinc node  zinc node $1 \text{ M Zn}^{2*}(aq)$ is electrochemical cell, who is electrochemical cell, who is electrochemical cell, who is electrochemical cell is to the proper cell diagram.  Ti(s) $\rightarrow$ Zn <sup>2+</sup> (aq) + 2e is dider the cell reaction repromodus is the proper cell diagram.  Ti(s) $\mid$ Ti <sup>2+</sup> (aq) $\mid$ Mn(s) $\mid$ Ti(s) $\mid$ Mn(s) $\mid$	salt bridge  at is the red  at is th	the skeletal  And Mn2+( action?  or a battery  on.  wif the cath  ell made fro 2e → Cu 2e → Mg  fitic cell mad actions:  dric cell mad actions:  reducing a  treducing a  treducing a	equation: aq) + Ti(s)  equation: aq) + Ti(s)  anode is "+" of the following anode and effrom the following anode and effort another the following anode and effort another the following anode and effort another the following anode an	ns in the salt or "-".  cathode.  following half-rea	ctions?
n th O O O O O O O O O O O O O O O O O O	zinc code	salt bridge  at is the red  at is th	the skeletal  And Mn2+( action?  or a battery  on.  wif the cath  ell made fro 2e → Cu 2e → Mg  fitic cell mad actions:  dric cell mad actions:  reducing a  treducing a  treducing a	equation: aq) + Ti(s)  equation: aq) + Ti(s)  anode is "+" of the following anode and effrom the following anode and effort another the following anode and effort another the following anode and effort another the following anode an	ns in the salt or "-".  cathode.  following half-rea	ctions?
n th O O O O O O O O O O O O O O O O O O	zinc looks  zinc looks  is electrochemical cell, which is the proper cell diagram Ti(s) $\rightarrow$ Cu <sup>2+</sup> (aq) + 2e coints  identified the cell reaction reproduction of the cell in the proper cell diagram Ti(s) $\rightarrow$ Ti <sup>2+</sup> (aq) $\rightarrow$ Mn(s) $\rightarrow$ Ti <sup>2+</sup> (aq) $\rightarrow$ Mn(s) $\rightarrow$ Mn(s	salt bridge  at is the red  at is the red  by  resented by re  re  resented by re  re  resented by re	the skeletal at the skeletal	equation: aqy + Ti(s) anode is "+" of the cation anode and anode and anode and anode and anode and anode and anode	ible using the cathode.  cathode.  following half-real distributions and the cathode and the cathode are cathode.	table?
nth O O O 4 ph O O O 4 ph O O O O 4 ph O O O O O O O O O O O O O O O O O O	is electrochemical cell, where $2^{-1}$ can be cell in the previous qualitate $2^{-1}$ can be cell in the previous qua	salt bridge  and is the red  a	the skeletal  the skeletal  Ann2+  or a battery  on.  wif the cath ell made fro 2e → Cu 2e → Mg  ify the solid  of the solid  o	equation: aqy + Ti(s) attery possions the cation anode is "+" anode is "+" anode is defined and anode and	cathode.  cathode.  following half-rea  different ele	table?
nth O O O   4 ph O O O O O   4 ph O O O O O O O O O O O O O O O O O O	zinc riode  zinc riode  zinc riode  zinc zinc zinc zinc zinc zinc zinc zin	salt bridge  at is the red  at is the red  at is the red  at is the red  by  resented by  the Ti2+(aq)  for this red  at is the red  at is th	the skeletal  the skeletal  And	equation: aqy + Ti(s) attery possions the cation anode is "+" anode is "+" anode is defined and anode and	cathode.  cathode.  following half-rea  different ele	ctions?

Li⁺ + e ¯ ⇌ Li

What reaction is occurring at the anode?

 $O \quad Au^+ \ + \ e^- \ \rightleftharpoons \quad Au$ 

 $O \quad Li^+ \ + \ e^- \ \rightleftharpoons \ Li$ 

O Li  $\rightleftharpoons$  Li<sup>+</sup> + e<sup>-</sup>

O Au  $\rightleftharpoons$  Au<sup>+</sup> + e<sup>-</sup>