South	Pasadena	• AP	Chemistry
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21 • Electron Transfer Reactions

□ Balancing Redox Equations

QUICK CHECK 1

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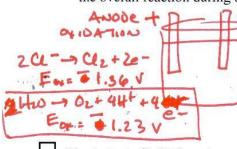
An acidified solution of potassium dichromate is added to a solution of iron(II) sulfate.

hydrogen gas and the complex ion, Al(OH)₄.

8 4H₂O + ²Al - ²Al(OH)₄ + 4H⁺ + 32-68420 + 2Al + 645 - 3 H2 + 2 Al(04) + 1

☐ Electrolysis Reactions

Use your Reduction Potential Chart to determine the reaction at the anode, reaction at the cathode, and the overall reaction during the electrolysis of a solution of copper(II) chloride.



2H20 + 2e- -> H2+ 20H-E° 20= -0.83V

240 + 2012+ -> Oz+ 4H+ + 2Cu

☐ Electrolysis Stoichiometry

A current of 2.50 amps is passed through a solution of Ni(NO₃)₂ for 2.00 hours.

What mass of Ni metal is deposited?

☐ Predicting Spontaneous (Product-Favored) Reactions

State whether each reaction below is product-favored or not. Use your reduction potential chart.

