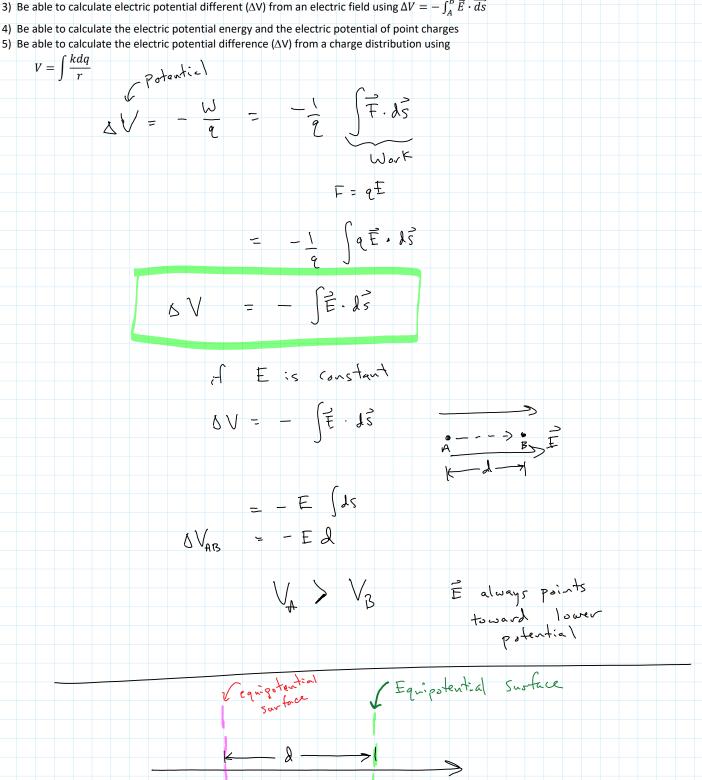
Goals for the Lecture:

- 1) Understand that electric potential energy is related to the work done by the electric field as a particle moves in the field: $\Delta U = -q \int_A^B \vec{E} \cdot \vec{ds}$
- 2) Understand that electric potential is different than electric potential energy: $\Delta V = \frac{\Delta U}{a}$
- 3) Be able to calculate electric potential different (ΔV) from an electric field using $\Delta V = -\int_A^B \vec{E} \cdot \vec{ds}$



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