Reminders 08-10-09:

- Last Exam Thursday
- Read Chapters 20, 21, and 22
- Answers to Standardized Test p. 561 1D, 2C,
 3A, 4D, 5A, 6C, 7D, 8B, 9B

Objectives:

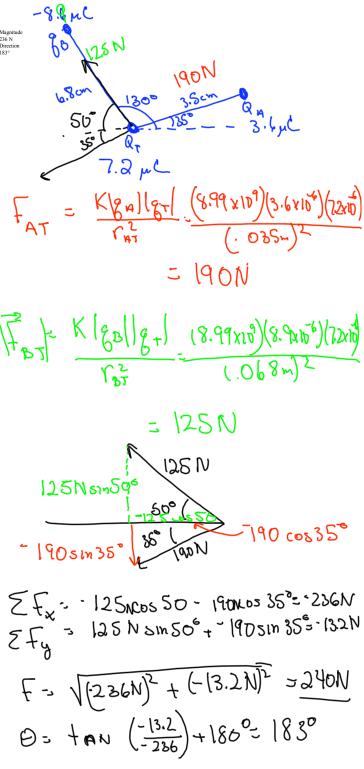
- Coulomb's Law
- Electric Fields
- Ohm's Law

F D = MDV= Impulse 5.020kg (255<u>m</u>-475) Wner = WK かられ: ナダ州びこ ゴルグ

$$\sqrt{F} = \frac{K[g_1|g_2]}{r^2}$$
 $K = \frac{8.99 \times 10^9 \, \text{N m}^2}{c^2}$
 $e^- = -1.602 \times 10^{-19} \, \text{C}$
 $p^+ = +(.602 \times 10^{-19} \, \text{C})$

Two charges, \textbf{q}_{A} and \textbf{q}_{B} , are at rest near a positive test charge, \textbf{q}_{T} of 7.2 μC . The first charge, \textbf{q}_{A} , is a positive charge of 3.6 μC , located 3.5 cm away from \textbf{q}_{T} at 35°; \textbf{q}_{B} is a negative charge of –8.9 μC , located 6.8 cm away at 130°.

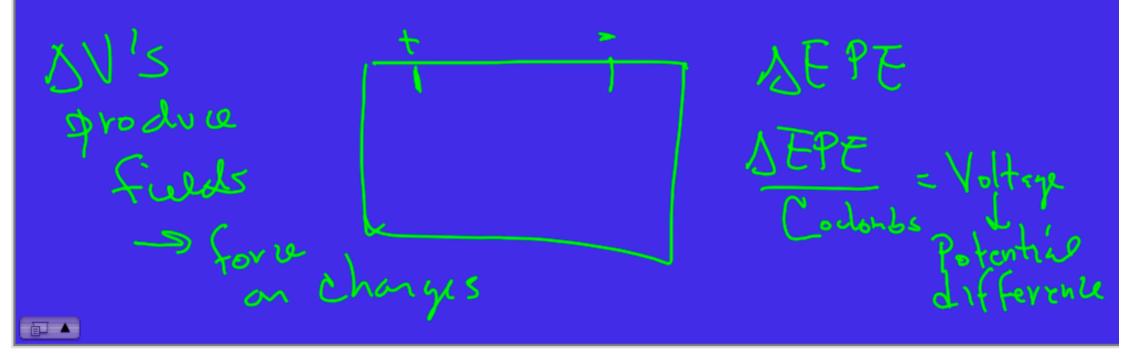
- (a) Determine the magnitude of each of the forces acting on q_T force aused by q_A force caused by q_B force caused by q_B force caused by q_B
- (b) Sketch a force diagram. (Do this on paper. Your instructor may ask you to turn in this work.)



Electricity-Current and Voltage

 In electricity and electronics, voltage causes electrons to flow in a wire. It is analogous to water pressure in mechanical systems.

Remember, we are making analogies.



 Suppose we have a light bulb and two batteries. How can we wire the batteries so that it glows more brilliantly?

