

Name: _____

Physics Chapter 17 Study Guide

Useful Information:

$$e = 1.6 \cdot 10^{-19} \text{ C} \quad k = 9 \cdot 10^9 \frac{\text{N}\cdot\text{m}^2}{\text{C}^2} \quad k_e = 8.99 \cdot 10^{22} \frac{\text{N}\cdot\text{m}^2}{\text{C}^2} \quad PE_{\text{electric}} = q\Delta V$$

$$\Delta V = -Ed \quad \Delta V = \frac{\Delta U}{q} \quad C = \frac{Q}{V} \quad C = \frac{Q\epsilon_0}{d} \quad PE_{\text{electric}} = \frac{1}{2}CV^2 \quad I = \frac{\Delta Q}{\Delta t} \quad R = \frac{\Delta V}{I}$$

A. Basic Understanding:

• Chapter 17 Odd-Numbered Class Problems

• Chapter 17 Review Problems: 1, 6, 9, 14, 20, 27, 36, 39, 46, 47, 55, 57, 66, 75, 77

Pushing to the Bottom:

• Chapter 17 Even-Type Problems

• Chapter 17 Even-Numbered Class Problems

• Chapter 17 Review Problems: 3, 4, 10, 13, 17, 22, 23, 25, 34, 38, 39, 43, 44, 45, 48, 49, 51, 54, 56, 61, 64, 65, 67, 68, 74, 76

• Standardized Test Prep: 1-12

Digging Deeper:

• Chapter 17 Review Problems: 2, 5, 15, 16, 21, 32, 42, 73, 80

• Student's Inquiry

Notes on Chapter 17 Equations:

$e = 1.6 \cdot 10^{-19} \text{ C}$ This is the fundamental unit of charge. The charge on an electron is $-e$ and the charge on a proton is $+e$. The net charge on objects that have a charge which is not a whole-number multiple of this number.

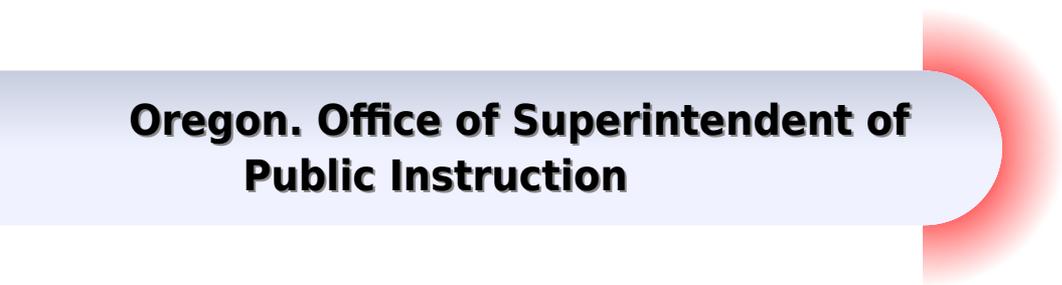
$k = 9 \cdot 10^9 \frac{\text{N}\cdot\text{m}^2}{\text{C}^2}$ This is Coulomb's Constant. It is a "fudge factor" necessary to make the next equation derive give better results in Newtons when the charges are in Coulombs and the distance between the charges is in meters.

$k_e = 8.99 \cdot 10^{22} \frac{\text{N}\cdot\text{m}^2}{\text{C}^2}$ This is the "permittivity of a vacuum," a needlessly complicated name. Like Coulomb's Constant, it's a fudge factor to make the units line up correctly. Units can get pretty tricky and sensitive in Electricity and Magnetism.

$PE_{\text{electric}} = q\Delta V$ This is the equation for the Electric Potential Energy of a point charge (q) moving across charge at voltage, ΔV .

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