

Department of Natural Sciences  
Clayton College & State University

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Physics 1112 – Quiz 1

Name SOLUTION

- Two point charges are 4.00 cm apart. They are moved to a new separation of 2.00 cm. By what factor does the resulting mutual force between them change?
  - 1/2.
  - 2.
  - 1/4.
  - 4.
- Which of the following best characterizes electrical conductors?
  - Low mass density.
  - High tensile strength.
  - Electric charges move freely.
  - Poor heat conductors.
- An uncharged conductor is supported by an insulating stand. I pass a positively charged rod near the left end of conductor, but do not touch it. The right end of the conductor will be:
  - Negative.
  - Positive.
  - Neutral.
  - Attracted.

