

Charges, Fields, and Potential

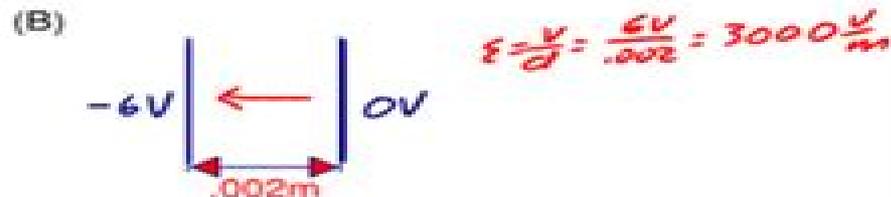
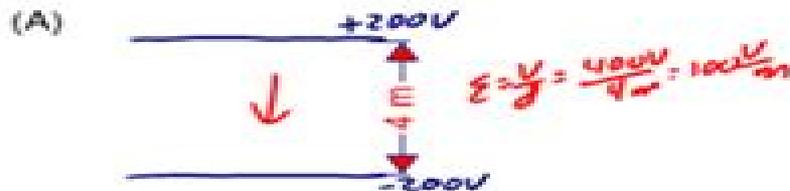
1. A conducting coathanger has a net excess charge of $6.4 \cdot 10^{-19}$ coulombs. The coathanger must:

- (A) have 2 excess electrons
- (B) be missing 2 protons
- (C) have 4 excess electrons
- (D) be missing 4 electrons

2. A metal conducting sphere has a net excess charge of $-4.8 \cdot 10^{-19}$ coulombs. The metal sphere must:

- (A) have 2 excess electrons
- (B) be missing 2 protons
- (C) have 3 excess electrons
- (D) be missing 3 electrons

3. Calculate the electric field for each of the following. Indicate both magnitude and direction.



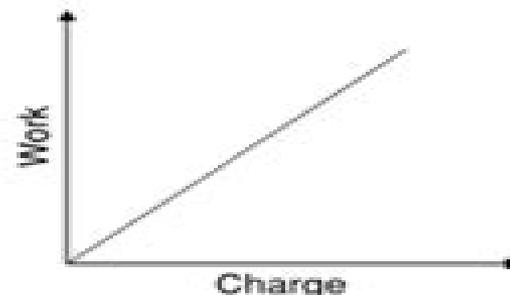
4. Which diagram best represents the electric field around a negatively charged conducting sphere?



5. The graph at right shows the relationship between the work done on a charged body in an electric field and the net charge on the body. What does the slope of this graph represent?

- (A) Power
- (B) Potential difference
- (C) Force
- (D) Electric field intensity

$$\frac{\text{rise}}{\text{run}} = \frac{W}{q} = \frac{8J}{8C} = V$$



6. A metal sphere having an excess of +5 elementary charges has a net electric charge of $8 \cdot 10^{-19}$ C.

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Science Spectrum Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003-03 **International Aerospace**
Abstracts ,1977 *Gramophone Record Review* ,1956

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