

## Electric Potential Energy and Electric Potential: Example Problems with Solutions

### Electric Potential and the Superposition Principle

- Find the electric field at a point located midway between the charges when both charges are positive as shown.

#### Solution



$$E = k \frac{|q|}{r^2} \quad q_1 = q_2 \quad r_1 = r_2 = 1\text{ m}$$

$$|E_1| = |E_2| = k \frac{|q|}{r^2} \quad E_{\text{net}} = 0$$

Find the electric potential at the same location.

#### Solution

We express the electric potential of each charge at point P then add them algebraically, since electric potential is a scalar quantity.

$$V = k \frac{q}{r} \quad r_1 = r_2 = 1\text{ m}$$

$$V_{\text{total}} = k \frac{q_1}{r_1} + k \frac{q_2}{r_2} \quad q_1 = q_2$$

$$V_{\text{total}} = 2 k \frac{q}{r}$$

$$V_{\text{total}} = 2 \left( 9 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2 \right) \frac{2.5 \times 10^{-6} \text{ C}}{1 \text{ m}} \quad V_{\text{total}} = 4.5 \times 10^4 \text{ V}$$

**Remember:**  $r$  is the distance from the charge to the point where we want to determine the electric potential.

Therefore:  $r_1$  is the distance from  $q_1$  to point P and  $r_2$  is the distance from  $q_2$  to point P.

### Electrical Potential in a Uniform Electric Field

- Membrane walls of living cells have surprisingly large electric fields across them due to separation of ions. (Membranes are discussed in some detail in Nerve Conduction—Electrocardiograms.) What is the voltage across an 8.00 nm-thick membrane if the electric field strength across it is 5.50 MV/m? You may assume a uniform electric field.

#### Solution

There are 2 units in SI for the Electric Field:  $[E]_{\text{SI}} = 1 \frac{\text{N}}{\text{C}} = 1 \frac{\text{V}}{\text{m}}$

$$E = 5.50 \times 10^6 \text{ V/m}$$

$$d = 8 \times 10^{-9} \text{ m}$$

$$V_{AB} = ?$$

$$V_{AB} = Ed \quad V_{AB} = (5.50 \times 10^6 \text{ V/m})(8 \times 10^{-9} \text{ m})$$

$$V_{AB} = 44 \times 10^{-3} \text{ V} \quad V_{AB} = 44 \text{ mV}$$

# Electric Potential Answers

**JA Banks**



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