

Electrostatics FRQ 3

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1. Where p^{8+} is the +8 charge, e^{3-} is the -3 charge and e^{1-} is the -1 charge (1)

$$\begin{aligned} V &= k \sum \frac{q}{r} \\ &= k \left(\frac{-1 \cdot 10^{-9}}{5} + \frac{-3 \cdot 10^{-9}}{4} + \frac{8 \cdot 10^{-9}}{3} \right) \\ &= 15.45[\text{V}] \end{aligned} \tag{1}$$