## **Interatomic Forces**

The potential energy between a  $Na^+$  ion and a  $Cl^-$  ion is

$$V(r) = -\frac{A}{r} + \frac{B}{r^2}$$

where A = 24 eV - A and  $B = 28 \text{ eV} - A^2$ . Is the attractive part of the potential consistent with the force between two point charges? What is the equation that describes classically the separation of the two ions? At t = 0, the separation of the ions is 2.0 Å and their relative velocity is zero.









