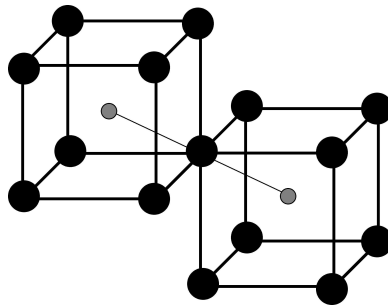


Problem Set Two Solutions
Structure Additional Problems

Problem 5

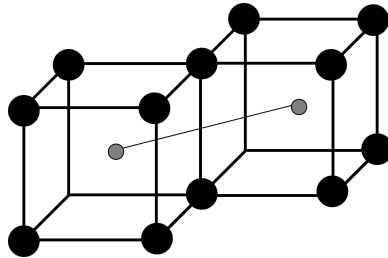
(a)



The cation-cation distance in this configuration is:

$$2(R_A + R_B)$$

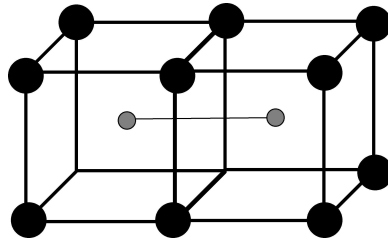
(b)



The cation-cation distance in this configuration is:

$$2 * \frac{\sqrt{2}}{\sqrt{3}}(R_A + R_B) = 1.63(R_A + R_B)$$

(c)



The cation-cation distance in this configuration is:

$$\frac{2}{\sqrt{3}}(R_A + R_B) = 1.15(R_A + R_B)$$