

Chapter 6 — Problems 56, 58, 60

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56. Which of the four atoms Na, P, Cl, or K:

(a) has the largest atomic radius

K

(b) has the highest ionization energy

Cl

(c) is the most electronegative

Cl

58. Select the smaller member of each pair

(a) P and P^{3-}

P

(b) V^{2+} and V^{4+}

V^{4+}

(c) K and K^+

K^+

(d) Co and Co^{3+}

Co^{3+}

60. Arrange the following species in order of increasing radius:

(a) Rb, K, Cs, Kr

Least Kr K Rb Cs Greatest

(b) Ar, Cs, Si, Al

Least Ar Si Al Cs Greatest