

Electron Configuration Homework

1. In the space below, write the shorthand electron configurations of the following elements:

a. cobalt

b. silver

c. tellurium

d. radium

e. francium

2. Determine what elements are denoted by the following electron configurations:

a. $[\text{Kr}] 5s^2 4d^{10} 5p^3$

b. $[\text{Xe}] 6s^2 4f^{14} 5d^6$

c. $[\text{Rn}] 7s^2 5f^{11}$

d. $[\text{Xe}] 6s^1$

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e. $[\text{Rn}] 7s^2$

3. In the space below, write the electron configurations of the following ions:

a. Fluorine

b. Magnesium

c. Potassium

d. Oxygen

e. Phosphorous