

Quantum Numbers

Name: _____

1) Determine the element from the electron configurations and give the quantum numbers:

a) [Rn]7s²5f¹⁰ c) 1s²2s²2p¹

b) 1s²2s²2p⁶3s²3p⁶4s²3d¹⁰ d) [Ar]4s²

2) Write the electron configuration and give the quantum numbers of the outermost electron for the following atoms:

a) vanadium

b) uranium

c) tellurium

d) radium

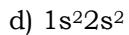
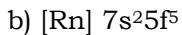
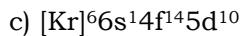
3) Write the electron configuration for the following ions, and do orbital diagrams for each:

a) Cl⁻¹b) Be⁺²c) N⁻³

Quantum Numbers

Name: _____

1) Determine the element from the electron configurations and give the quantum numbers:



2) Write the electron configuration and give the quantum numbers of the outermost electron for the following atoms:

a) nihonium

b) thorium

c) rubidium

d) iridium

3) Write the electron configuration for the following ions, and do orbital diagrams for each:

