

1. Write the correct power of 10 for each of the following metric prefixes:

M

m

2. Typical radii for the electron in the ground state of the hydrogen atom are closest to which order of magnitude?

10^{-6} m

10^{-9} m

10^{-12} m

10^{-15} m

3. a) Which of the following parts of the electromagnetic spectrum corresponds to the longest wavelength?

b) Which corresponds to the highest energy photons?

blue

red

green

IR (infrared)

UV (ultraviolet)

X-rays