

1. Use the factor/label method to make the following conversions:

a. 35.0 nm to m

b. 45 A to m

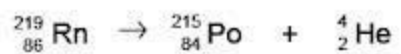
c. 460 cm to nm

d. 3.0×10^{-10} m to nm

e. 2.4×10^{-10} m to A

2. Write a balanced equation for each of the following nuclear reactions:

Example:



This is alpha decay or emission.

a. Krypton-87 (Kr) decays by beta emission.

b. Curium-240 (Cm) decays by alpha emission.

c. Uranium -232 (U) decays by alpha emission.

d. Zinc-71 decays by beta emission.

e. Silicon-32 decays by beta emission.