

Name _____ Period _____

College Prep Chemistry

Assignment 1P – Nuclear Decay Chains

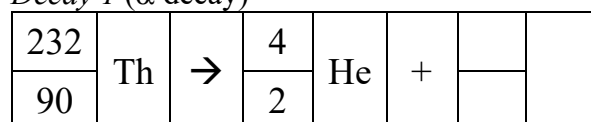
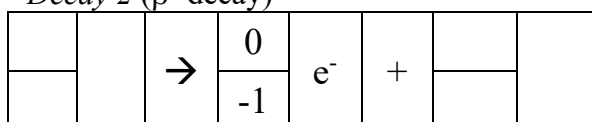
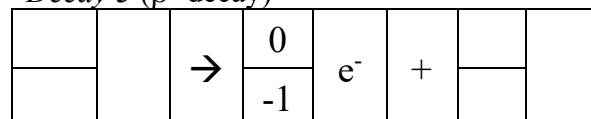
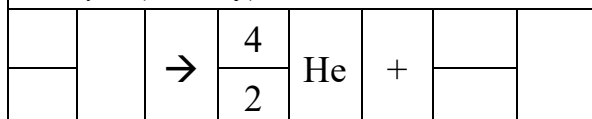
20 Points

Answer the following questions based on the in class notes

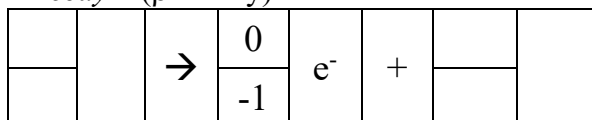
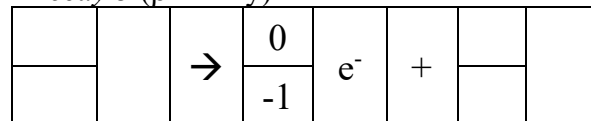
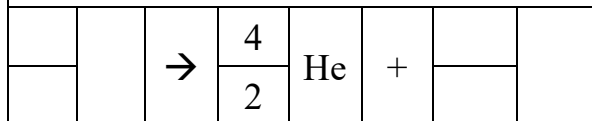
What is a nuclear decay chain?	What is the end product of any chain?

Complete the following nuclear decay chain

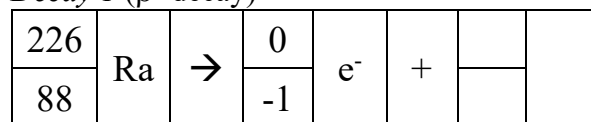
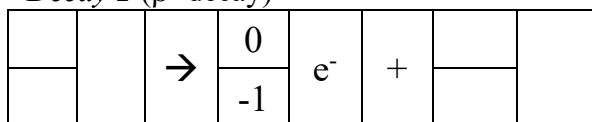
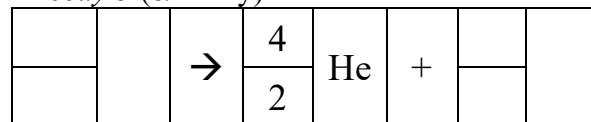
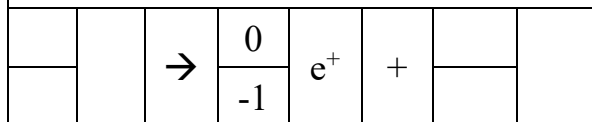
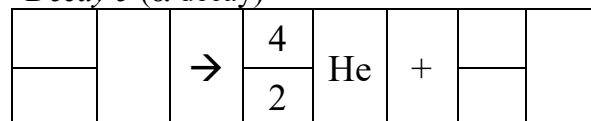
Thorium-232 Decay Chain

Decay 1 (α decay)*Decay 2 (β- decay)**Decay 3 (β- decay)**Decay 4 (α decay)*

Polonium-216 Decay Chain

Decay 1 (α decay)*Decay 2 (β- decay)**Decay 3 (β- decay)**Decay 4 (α decay)*

Radon-226 Decay Chain

Decay 1 (β- decay)*Decay 2 (β- decay)**Decay 3 (α decay)**Decay 4 (β+ decay)**Decay 5 (α decay)**Decay 6 (α decay)*