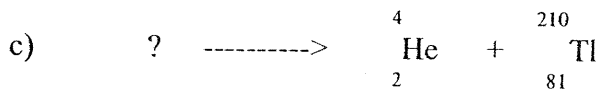
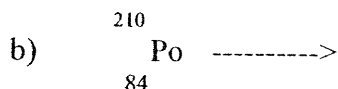
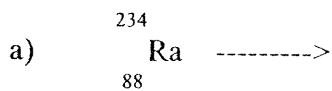
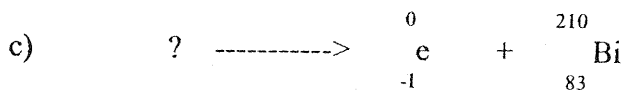
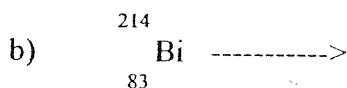
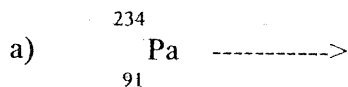


Nuclear Reactions and Half-Life

1. Name the three types of radiation.
2. What is the penetration ability of each type (What does it take to stop each type?)?
3. Complete the nuclear reactions after alpha emission:



4. Complete the nuclear reactions after beta emission:



5. All atoms in 256 g of a substance are radioactive. The half-life is 4 hrs. How many grams of the substance are still radioactive after 24 hrs?

6. All atoms in 96 g of a substance are radioactive. The half-life is 5 days. How many days until only 3 g of the substance is still radioactive?