**Nuclear Equations**

Radioactive atoms emit radiation because their nuclei are unstable. Unstable atoms will become stable by losing energy or mass. When an atom emits energy or mass, it is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

There are three types of radioactive decay:

**Alpha**

**Beta**

**Gamma**

The two rules of Nuclear Equations

1. The sum of the mass numbers does not change
2. The sum of the charges in the nucleus does not change

Homework CYU on p.301