1. Radioactivity is where substances emitted radiation spontaneously while radioactive decay is where unstable nuclei lose energy by emitting radiation.
2. Conserved the mas is something conserved and not conserved (I do not know I wasn’t paying attention)
3. Because opposites attract each other while for gamma rays there is nothing to attract
4. 4 - 1/1840 == 4.0 amu difference

|  |  |  |  |
| --- | --- | --- | --- |
|  | Type of Radiation | Atomic Number | Mass Number |
| 2 neutrons  2 protons | ά | Decreases by 2  -2 | Decreases by 4 |
| e- | β | Increases by 1 | No change |
| energy | γ | No Change | No change |