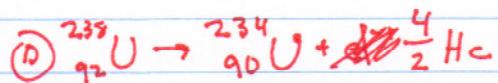
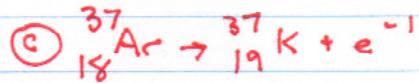
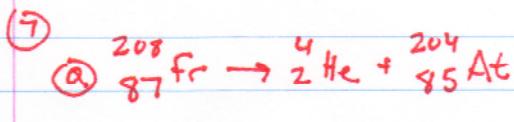
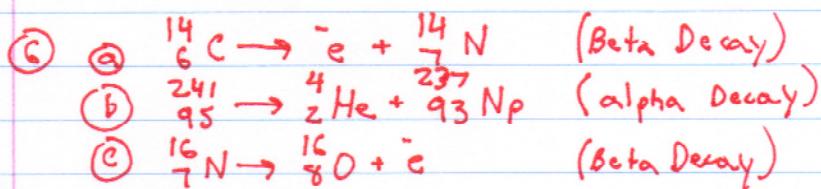


- ⑤ a. $p^+ = 95$ $n^o = 138$
 b. $p^+ = 27$ $n^o = 33$
 c. $p^+ = 97$ $n^o = 150$
 d. $p^+ = 87$ $n^o = 136$
 e. $p^+ = 98$ $n^o = 153$
 f. $p^+ = 58$ $n^o = 92$
 g. $p^+ = 89$ $n^o = 139$
 h. $p^+ = 19$ $n^o = 21$



$$8.0\text{g} \times \frac{1}{2} = 4.0\text{g} \times \frac{1}{2} = 2.0 \times \frac{1}{2} = 1.0\text{g} \times \frac{1}{2} = .5\text{g} \times \frac{1}{2} = \underline{\underline{.25\text{g}}}$$

① ② ③ ④ ⑤

5 half lives
 $5 \times 164\text{seconds} = \boxed{820\text{seconds}}$