Complete the following equations.

$^{232}_{90}Th \rightarrow {}^{\_\_}_{\_\_}Ra + {}^{4}_{2}He$

$^{224}_{88}Ra \rightarrow {}^{\_\_}_{\_\_}Rn + {}^{4}_{2}He$

$^{216}_{84}Po \rightarrow {}^{\_\_}_{\_\_}Pb + {}^{4}_{2}He$

$^{64}_{29}Cu \rightarrow {}^{\_\_}_{\_\_}\mathbf{Zn} + {}^{0}_{-1}e$

$^{25}_{11}Na \rightarrow {}^{\_\_}_{\_\_}Mg + {}^{0}_{-1}e$

$^{56}_{25}Mn \rightarrow {}^{\_\_}_{\_\_}Fe + {}^{0}_{-1}e$

$^{\_\_}_{\_\_}Bi \rightarrow {}^{208}_{81}Tl + {}^{4}_{2}He$

$^{\_\_}_{\_\_}Ac \rightarrow {}^{221}_{87}Fr + {}^{4}_{2}He$

$^{\_\_}_{\_\_}U \rightarrow {}^{229}_{90}Th + {}^{4}_{2}He$

$^{\_\_}_{92}U \rightarrow {}^{234}_{\_\_}Th + {}^{\_\_}_{2}He$

$^{237}_{\_\_}Np \rightarrow {}^{\_\_}_{91}Pa + {}^{4}_{\_\_}He$

$^{213}_{\_\_}Po \rightarrow {}^{\_\_}_{82}Pb + {}^{\_\_}_{\_\_}He$

$^{\_\_}_{\_\_}Be \rightarrow {}^{10}_{5}B + {}^{0}_{-1}e$

$^{\_\_}_{\_\_}F \rightarrow {}^{20}_{10}Ne + {}^{0}_{-1}e$

$^{\_\_}_{\_\_}Br \rightarrow {}^{83}_{36}Kr + {}^{0}_{-1}e$

$^{125}_{\_\_}Sb \rightarrow {}^{\_\_}_{52}Te + {}^{0}_{-1}e$

$^{\_\_}_{87}Fr \rightarrow {}^{222}_{\_\_}Ra + {}^{\_\_}_{-1}e$

$^{237}_{\_\_}U \rightarrow {}^{\_\_}_{93}Np + {}^{\_\_}_{\_\_}e$

4. $^{222}_{88}Ra$ into Rn by alpha decay.

5. $^{199}_{79}Au$ into Hg by beta decay.

6. $^{215}_{83}Bi$ into Po by beta decay, which then, in turn, alpha decays into Pb