CHMA10H3 PRACTICE FINAL EXAM

1) Balance the following redox reaction if it occurs in basic solution. What are the coefficients in front of Al and F_2 in the balanced reaction?

$$Al(s) + F_2(g) \rightarrow Al^{3+}(aq) + F^-(aq)$$

A) Al = 2, F_2 = 3
B) Al = 2, F_2 = 6
C) Al = 1, F_2 = 1
D) Al = 2, F_2 = 1
E) Al = 3, F_2 = 2
Answer: A

2) What precipitate is most likely formed from a solution containing Ba^{2+}, Na^{1+}, OH^{1-}, and CO_3^{2-}.
A) NaOH
B) $BaCO_3$
C) Na_2CO_3