1. (5 points) Write the mechanism for the monochlorination of ethane. Be sure to include each of the three steps.

2. (5 points) Predict the product(s) of each of the following reactions. Which compound, if any, is the major product?

\[ \text{+} \quad \text{Br}_2 \quad \text{hv} \quad \text{+} \quad \text{F}_2 \quad \text{hv} \]

1 (5)

2 (5)

Score (out of 10):_________