Sn2, Sn1, E2, E1 Competition

Is the following reaction Sn2, Sn1, E2, or E1?

1. Decide whether the following reaction is a Sn2, Sn1, E2, or E1. What is the product?

2. Decide whether the following reaction is a Sn2, Sn1, E2, or E1. What is the product?

3. Decide whether the following reaction is a Sn2, Sn1, E2, or E1. What is the product?

4. Decide whether the following reaction is Sn2, Sn1, E2 or E1. What is the product?

5. Decide on what reagents to use for the following reaction.
6. Are the following reactions more or less favored at high temperature?

\[ A + B \rightarrow AB \]
\[ AB + CD \rightarrow AD + B + C \]

7. Draw the products for the following reactions

\[ \text{Br} \quad \text{O}^- \quad \text{Low Temperature} \]
\[ \text{Br} \quad \text{O}^- \quad \text{High Temperature} \]