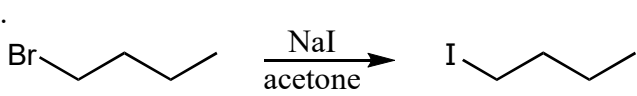
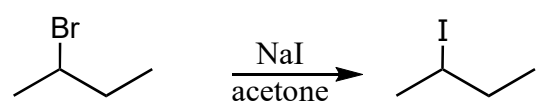




4A) (10 pts) For each of the following pairs of reactions, indicate which one will be faster and briefly explain why. If you expect no significant difference in the reaction rates, say so. **No explain = no credit.**

<p>a. </p> <p>b. </p> <p>mechanism name? <input style="width: 80px; height: 20px;" type="text"/> which is faster (a, b or neither)? <input style="width: 80px; height: 20px;" type="text"/> explain. <input style="width: 80px; height: 20px;" type="text"/></p>	<p>a. </p> <p>b. </p> <p>mechanism name? <input style="width: 80px; height: 20px;" type="text"/> which is faster (a, b or neither)? <input style="width: 80px; height: 20px;" type="text"/> explain. <input style="width: 80px; height: 20px;" type="text"/></p>
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4B) (6 pts) Explain why reaction of **A** with *tert*-butoxide is about 500 times faster than **B**. What mechanism is taking place? Use appropriate drawings to support your answer.

