1. Compound **A** undergoes a free radical cyclization to give **B** and **C**. The ratio of **B/C** depends on concentration of Bu₃SnH and was 3:1 or 100:0 when 0.02 molar or 1.7 molar Bu₃SnH was used respectively. Explain.

2. How would you accomplish each of the following transformations (maximum 2 steps allowed for both reactions)?