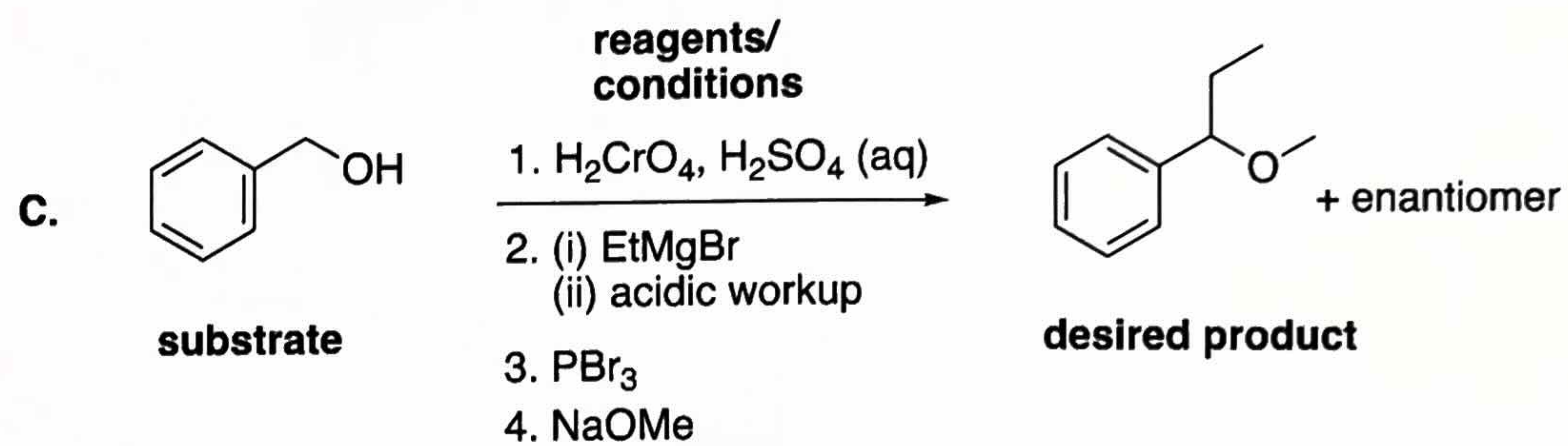
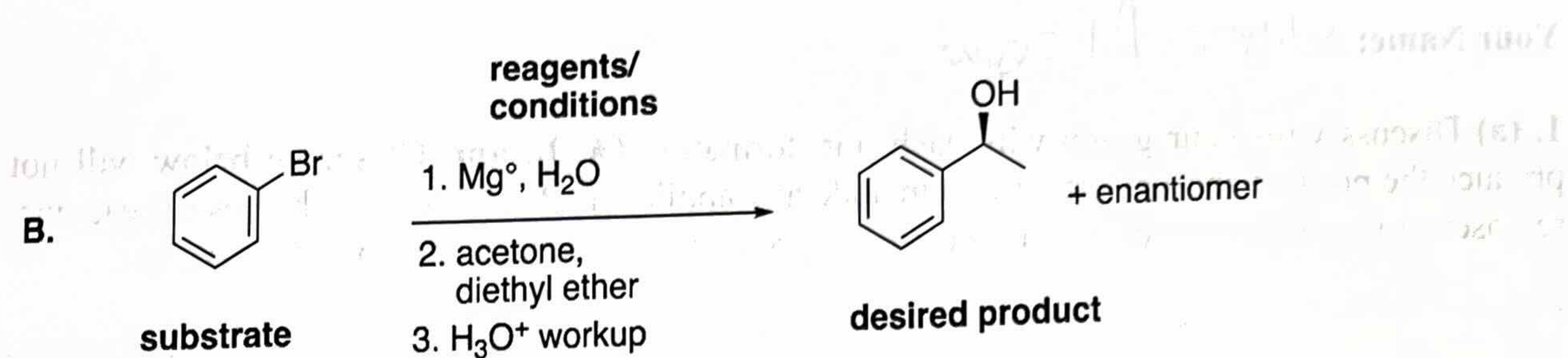




This is a Suzuki reaction. This reaction combines an aryl halide with an alkene and palladium.



The answer is portrayed. Electrons from the palladium start the $\text{S}_{\text{E}}\text{Ar}$ reaction. The aromatic ring becomes electrophilic and reacts with the alkene.

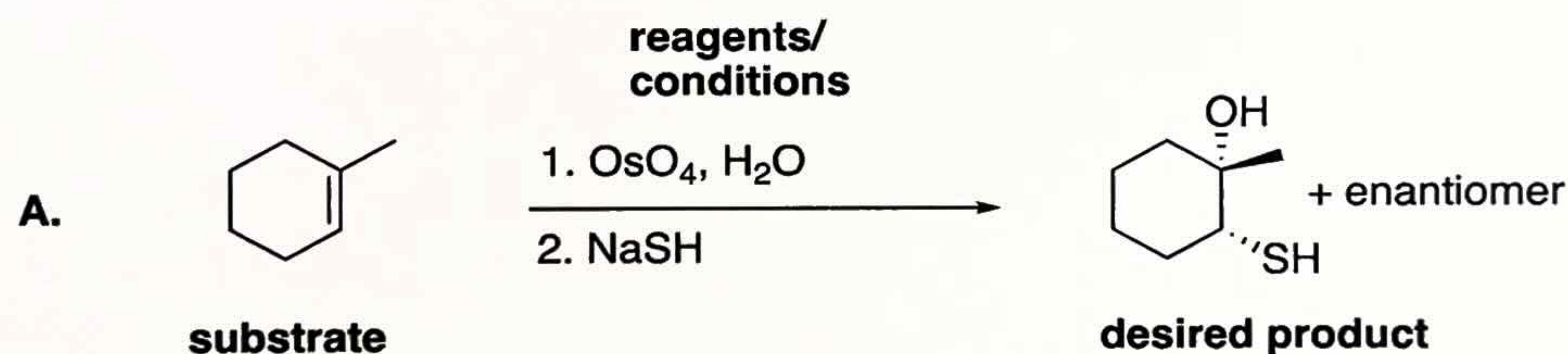
Your Name: James McGee

1. (a) Discuss with your group why each transformation (A, B, and C) shown below will not produce the product shown. Be sure to include any applicable discussion on choices of reagents, regioselectivity and stereochemical outcome expected versus what is shown in the product.

Your peer review for other students should include discussion about why you agree or disagree with the others' responses. Don't just simply comment "I agree" or "I disagree". Discuss helpful and insightful suggestions for responses you don't agree with. You should all come to a general consensus of why each case will not work as originally shown.

(b) Propose a way to fix the conditions so that the desired product provided can be made from the substrate given. You can do this simply by constructing a new scheme. Be sure to show the correct reagents/conditions for each step and make sure that each step is in the correct order. If applicable, the proposed "fix" should also consider both the regio- and stereochemistry shown in the desired product. There may be more steps required than the number originally shown for each transformation. You will need to recall knowledge of both current and previous reactions presented in the course and text book.

In your peer review, discuss why you think each proposed correction will or will not work. Offer insightful suggestion for improvement in such cases. You should all come to a general consensus of a proposed route that will work.



This is a Friedel-Crafts alkylation reaction. This reaction adds an alkyl halide to a sweet-smelling ring under Lewis acidic conditions. Electrons from the Lewis acidic impetus power the sweet-smelling ring. Meaning it may remove a water particle from the fragrant ring.