Name:

Quiz 5

1. Fill in the missing products, reactants, or reagents below.

Et = ethyl group

2. Provide a step-wise mechanism for the following transformation.

3. For their lab synthesis project, a student plans to use Et<sub>2</sub>NH (diethylamine) as a base to form an enolate ion, as shown by the reaction below. Do you think this is a good choice? Use pKa values to calculate K<sub>eq</sub>, and use this to explain your answer. (hint: one of the given pKa values is not relevant to this reaction)

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