Show the intermediates A-C and the mechanisms through which they form. Note that BnNH₂/Me₂S are added to the solution after A has already formed. The final step is optional.

Hints for the final step:
- The final step does not use MB as a photosensitizer but instead exploits its potential to undergo redox reactions

A proposed biosynthetic pathway to the *Lycopodium* alkaloid serratezomine A (2) from serratinine (1) was tested using the following *one pot* procedure. Draw the mechanism for the following transformation and explain any diastereoselectivity if necessary.