Here are some more problems.

1) I said in class that *trans*-decalin was more stable than *cis*-decalin. By drawing the Newman projections, verify this for yourselves.

2) There is an interesting isomer of adamantine \((\text{C}_{10}\text{H}_{16})\) which has the IUPAC name tricyclo[4.4.0.0\(^{3,8}\)]decane. Draw this molecule in a realistic looking way. Using your models, propose a more descriptive name.

3) On the template given, complete the structure of the steroid 5\(\alpha\)-cholestan-3\(\beta\), 7\(\beta\)-diol. Do this by adding:
   --an axial 1,5-dimethylhexyl group to C(17)
   --two axial methyl groups to C(10) and C(13)
   --two equatorial hydroxyl groups to C(3) and C(7)