

Problem 35, Chemistry 301X - 2006

Draw all the isomers of the formula C_7H_{12} that contain **two** double bonds (not one, not three, exactly two double bonds), and the name of which must end in "heptadiene." However, include also one example of a compound the name of which must end in "hexadiene" and one the name of which must end in "pentadiene." Be sure to be alert for any examples of cis/trans (*E/Z*) isomerism. Please draw all cis/trans isomers.

It is not necessary to spend forever making sure you have them all. There are 17. See if you can get quickly to 14 or 15. BE SYSTEMATIC!!!!!!