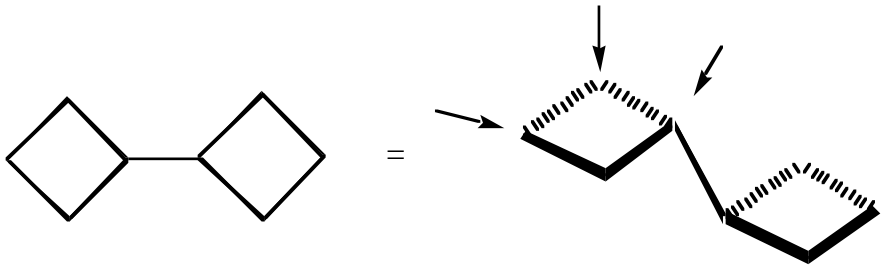
Problem 18 Answers, Chemistry 301X, 2006

(a)

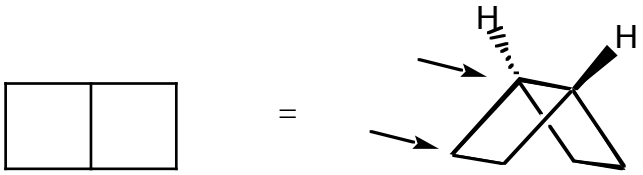


three different carbons

(b)

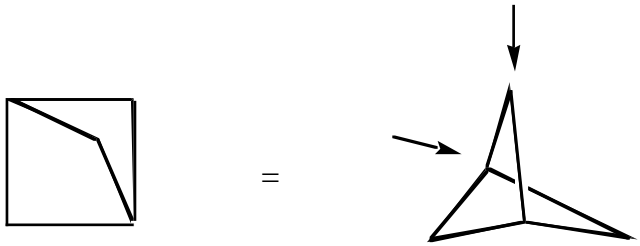
three different carbons

(c)



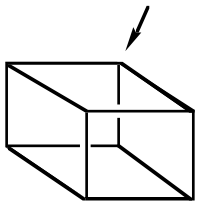
two different carbons

(d)



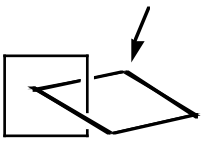
two different carbons

(e)



all carbons are the same

(f)



all carbons would be the same if this compound existed, which it does not (yet).

actually, in part (f) there is only one carbon *if there is free rotation of the rings*. How many carbons would there be if the links are "stuck"?