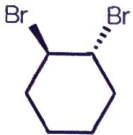
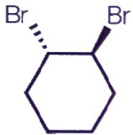
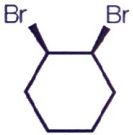




Lecture 8: Stereochemistry II

WOW Your Neighbors

		# Chiral Centers	Name the molecule (remember R/S and cis/trans notation!)	Specify if the molecule is chiral (C), achiral (A) or meso (M)
A		2	(1R,2R) - 1,2 - dibromocyclohexane	C
B		2	(1S,2S) - 1,2 - dibromocyclohexane	C
C		2	(1R,2S) - 1,2 - dibromocyclohexane	M
D		0	cis - 1,4 - dihydroxycyclohexane trans cis (cis - 1,4 - ^{or} cyclohexanediol)	A
E		0	trans - 1,4 - dihydroxycyclohexane (or trans - 1,4 - cyclohexanediol)	A

What is the relationship between A & B? enantiomers

What is the relationship between A & C? diastereomers

What is the relationship between D & E? diastereomers (cis/trans)