

CEM143, Quiz 3

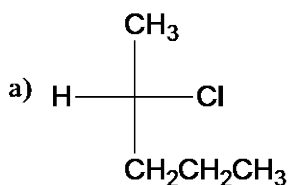
Spring 2019

NAME:

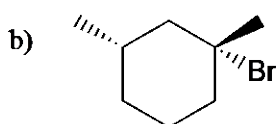
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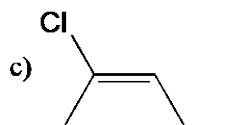
1) (6 Pts., 2 each) Provide the IUPAC name for each of the following compounds as instructed.



Include R/S configuration



Include R/S configuration



Include E/Z

2) (4 Pts, 2 each) Provide the structure for each of the following compounds:

a) Z-3,4-dichloro-3-octene



b) (1R,2R)-1-chloro-2-ethylcyclopentane



(10 Pts, 2 each) Use Figure 1 to answer questions 3 thru 7.

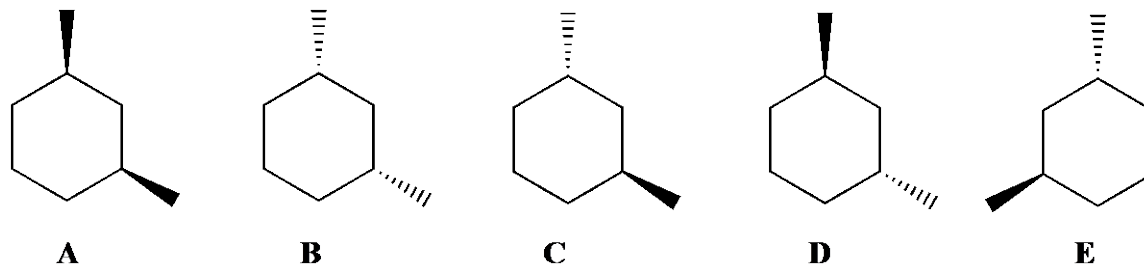


Figure 1

3) What is the relationship of **Compounds A & B** in Figure 1?

- A) Enantiomers
- B) Diastereomers
- C) constitutional isomers
- D) They are identical (the same molecule)

4) What is the relationship of **Compounds A & C** in Figure 1?

- A) Enantiomers
- B) Diastereomers
- C) constitutional isomers
- D) They are identical (the same molecule)

5) What is the relationship of **Compounds C & D** in Figure 1?

- A) Enantiomers
- B) Diastereomers
- C) constitutional isomers
- D) They are identical (the same molecule)

6) What is the relationship of **Compounds D & E** in Figure 1?

- A) Enantiomers
- B) Diastereomers
- C) constitutional isomers
- D) They are identical (the same molecule)

7. How many of the compounds in **Figure 1** are called **meso-compounds**?