**2.1.1 INTRODUCTION TO ORGANIC CHEMISTRY - ALKENES**

1. Draw the molecular, empirical, structural and skeletal formula and give the name of the following alkenes:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. of carbons | Skeletal | Molecular | Structural | Empirical | Name |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |
| 5 |  |  |  |  |  |
| 6 |  |  |  |  |  |
| 7 |  |  |  |  |  |
| 8 |  |  |  |  |  |
| 9 |  |  |  |  |  |
| 10 |  |  |  |  |  |

2. a) Draw the shape of a propene molecule and give all the bond angles.

 b) Explain what is meant by a pi-bond

c) Draw two structural isomers of C4H8