Name: _____   Date: _____

[3 pt]   1. Define the term Structural Isomer:

[3 pt]   2. Which of the following molecule(s) are isomers of each other. For example A/B, and C/D/E (not the correct answer btw).
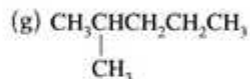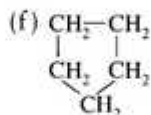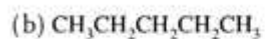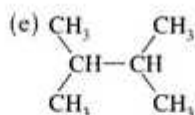
(a) $CH_3CH_2CH_2CH_3$

(b) $CH_3CH_2CH_2CH_2CH_3$

(c) CH_3CHCH_3
      |
    CH_3CH_2

(d) $CH_3CH_2CH_2CH_2CH_2CH_3$

(e) CH_3 CH_3
      \   /
      CH—CH
      /   \
    CH_3 CH_3

(f) CH_2—CH_2
     | |
    CH_2 CH_2
       \   /
        CH_2

(g) $CH_3CHCH_2CH_2CH_3$
          |
        CH_3

(h) CH_2
     | \
     | CHCH$_2$CH$_3$
     | /
    CH_2

(i) CH_3CH_2
        |
    CH_2CH_3
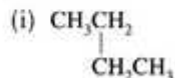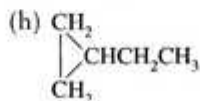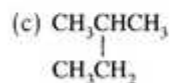
[9 pt]   3. Give the name and structure (line or lewis) for the 9 isomers of heptane.

(a)   (f)

(b)   (g)

(c)   (h)

(d)   (i)

(e)

.