

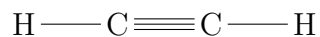
# Chapter 18 & 22 – Problem Set 1 & 2

Michael Brodskiy

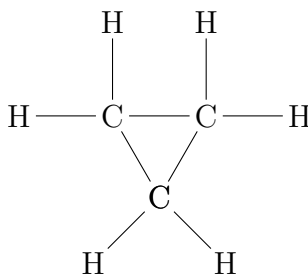
Instructor: Mr. Morgan

April 30, 2020

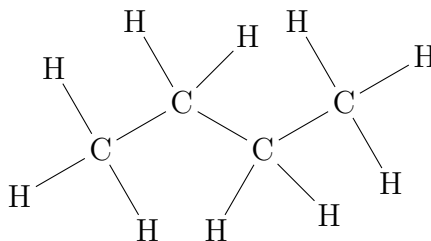
1. (a) Ether (d) Acid (g) Aldehyde  
(b) Acid (top right) & Alcohol (bottom right) (e) Aldehyde (h) Alcohol  
(c) Ketone (f) Ester (i) Halide
2. (a) Alkyne (Triple Bond)



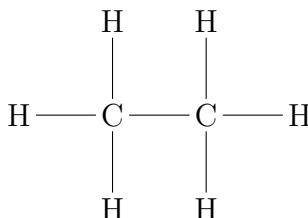
- (b) Alkane (Single Bond)

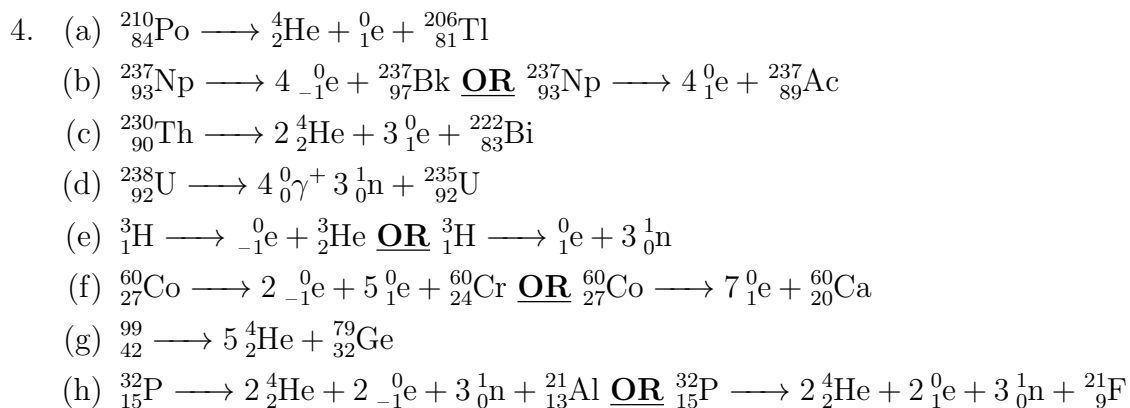


- (c) Alkane (Single Bond)



- (d) Alkane (Single Bond)





5.

$$\frac{30}{2.5} = 12$$

$$\frac{50}{2^{12}} = .01221[\text{g}] \quad (1)$$

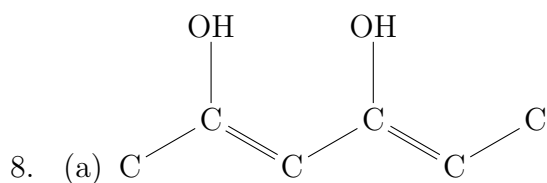
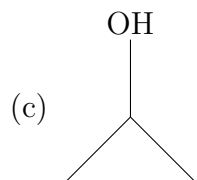
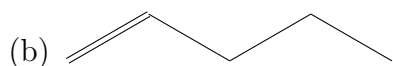
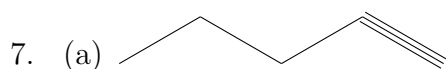
6.

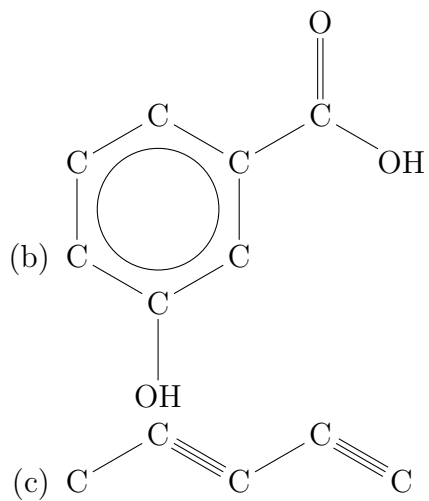
$$\frac{225}{2^{\frac{x}{42}}} = 7$$

$$225 = 7 \left( 2^{\frac{x}{42}} \right)$$

$$42 \log_2 \left( \frac{225}{7} \right) = x \quad (2)$$

$$x = 210.27[\text{days}]$$





9. (a) 2-methylbutane  
 (b) 2-propanol  
 (c) 2-bromo,4-chloropentane  
 (d) 2-bromo,3-methylbutane  
 (e) 2,3-butanol  
 (f) 3-ethylpentane

