Name: _____   Date: _____

[7 pt]   1. Answer the following questions about Elimination Reactions:

   (a) How will you recognize the reaction (2 ways)?

   (b) Write a reaction illustrating an elimination reaction. Be sure to include the intermediate step.

   (c) What is Saytzeff's Rule?

   (d) When should you use Saytzeff's Rule?

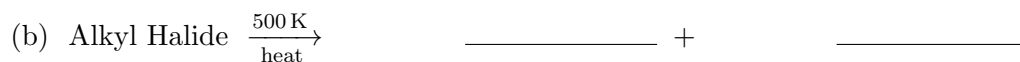   (e) Draw a reaction that illustrates Syatzeff's Rule **AND** circle the most favored product

2. What are the 5 steps to completing an Elimination reaction?

   (a)

   (b)

   (c)

   (d)

   (e)

3. What are the 3 types of molecules that can be Eliminated

   (a)

   (b)

   (c)

[3 pt]   4. Complete the following word reactions with the appropriate class of molecules.

   (a) Alkane $\xrightarrow[\text{heat}]{500\,\text{K}}$ _____ +   _____

   (b) Alkyl Halide $\xrightarrow[\text{heat}]{500\,\text{K}}$ _____ +   _____

   (c) Alcohol $\xrightarrow[\text{heat}]{500\,\text{K}}$ _____ +   _____

[20 pt]   5. Complete the following reactions by filling in the missing reactants or products. If multiple products are made, circle the more stable product. Balance combustion reactions.

(a) $\xrightarrow[\text{heat}]{500\,\text{K}}$

(b) $\xrightarrow[\text{heat}]{500\,\text{K}}$

(c) $\xrightarrow[\text{heat}]{500\,\text{K}}$

(d) $\xrightarrow[\text{heat}]{500\,\text{K}}$

(e) $\xrightarrow[\text{heat}]{500\,\text{K}}$

(f) $\xrightarrow[\text{heat}]{500\,\text{K}}$

(g) $+\ O_2\ \longrightarrow$