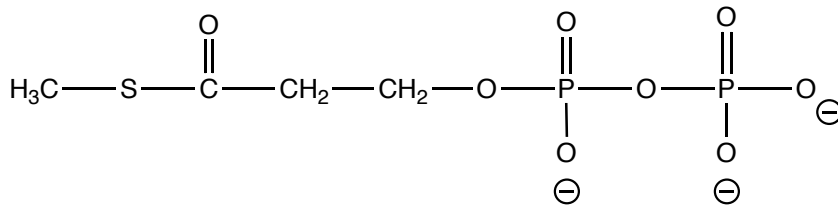
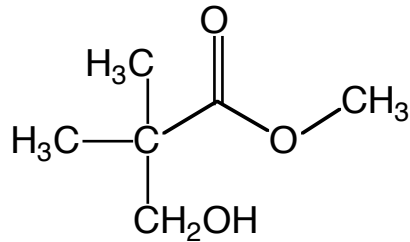
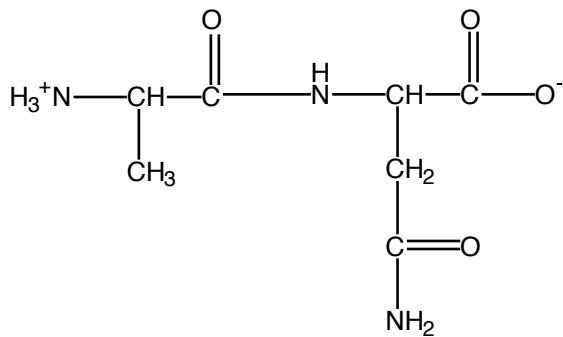
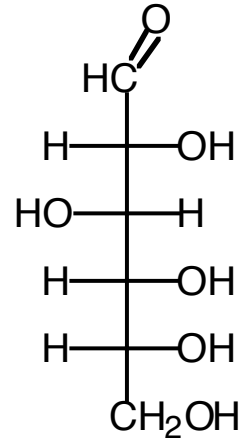
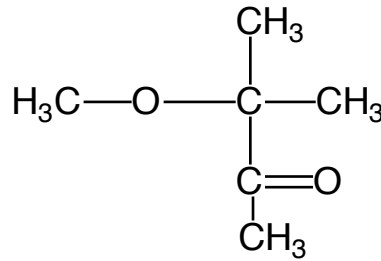
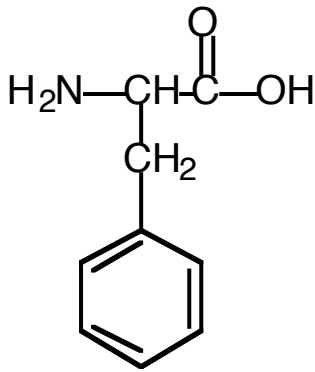


Biochem 330

Chemistry Review Part 1

Due 9/01/08

1. Find(circle) and label each of the functional groups in the molecules below.



Biochem 330

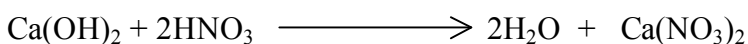
Chemistry Review Part 1

Due 9/01/08

2. Review of stoichiometry

A) Suppose you need to prepare a 500.0 mL of 1.0 M acetic acid. You have a 17.4 M stock solution of acetic acid. What volume of the stock solution is required to make this solution?

B) A 20.00 mL solution of Ca(OH)_2 is neutralized with 16.16 mL of 0.0100 M nitric acid (HNO_3).



What is the original concentration of the Ca(OH)_2 solution in molarity?

C). What is the molarity of a solution prepared by adding 58.5 g of NaCl to 230 ml of H_2O ?

D) What is the molarity of the new solution when 200 ml of 10.5M HCl is diluted with water to a total of 1 liter?

E). Infant Tylenol contains 80 mg of acetaminophen for every 0.8 ml. What is its percent concentration (mass %)?

F) If an adrenaline rush can be experienced when your blood contains only 5.4 ppm of the hormone, what total mass of adrenaline is required in the blood of a person who has 6.5 liters of blood total for the hormone to kick in?