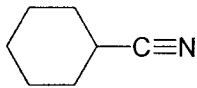
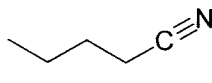


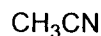
1. Name the following compounds! (3 pts)



a



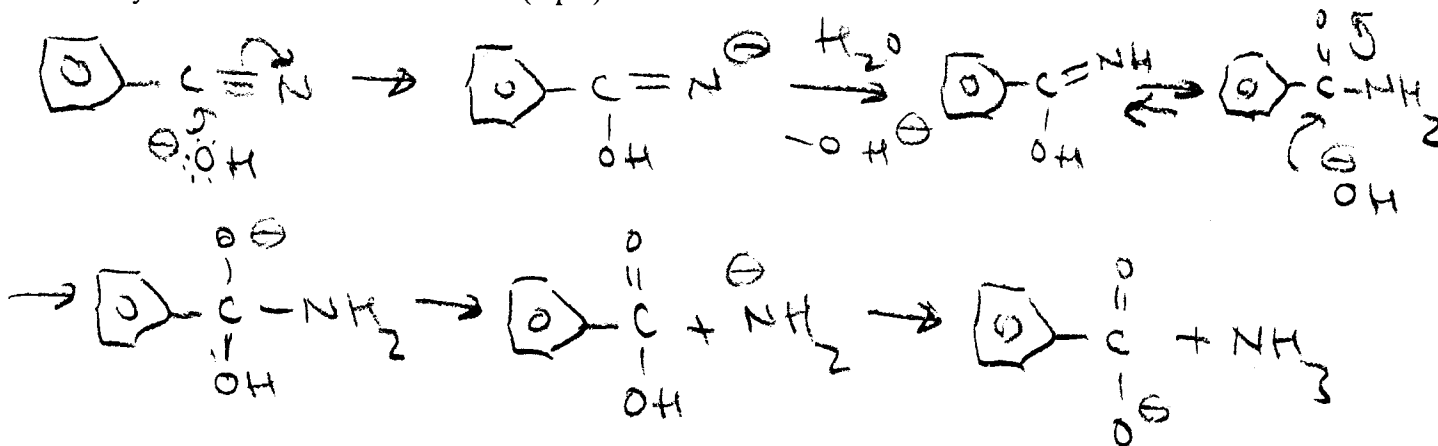
b



c

a) cyclohexane carbonitrile

b) pentanenitrile

c) acetonitrile or ethanenitrile2. Show a reaction mechanism for the reaction of benzonitrile and aqueous sodium hydroxide to sodium benzoate! (4 pts)

3. Circle all compounds you will need today (3 pts)

1. hydrochloric acid

2. ethanol

3. acetone

4. Indicate which of the following statements are CORRECT. They all refer to last week's experiment (preparation of benzoic acid) (5 pts)

- a) Nitriles also can be hydrolyzed under acidic (rather than basic) conditions
 b) I also could have prepared benzoic acid by hydrolyzing ethyl benzoate
 c) The hydrolysis of nitriles can be used to prepare secondary amides
 d) The hydrolysis of secondary amides can be used to prepare carboxylic acids
 e) I also could have prepared benzoic acid by oxidizing benzaldehyde.