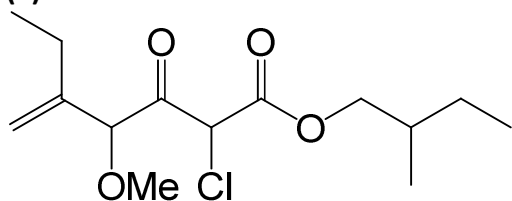


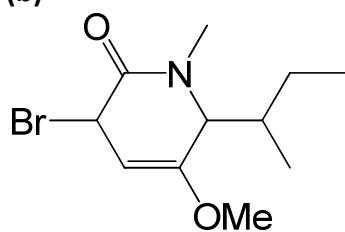
NAME _____

1. Name the following compounds (6 x 2 = 12 pts)

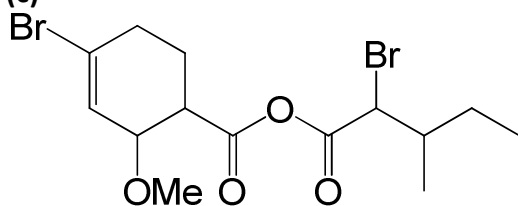
(a)



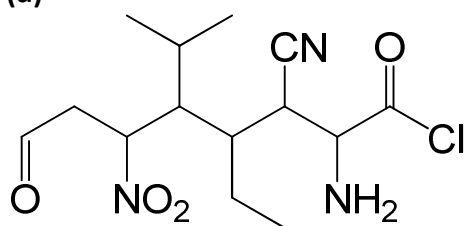
(b)



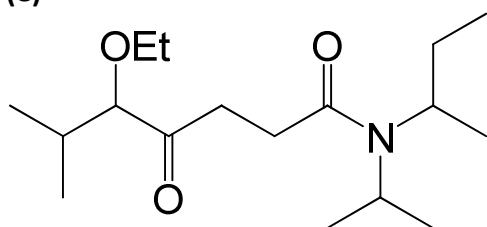
(c)



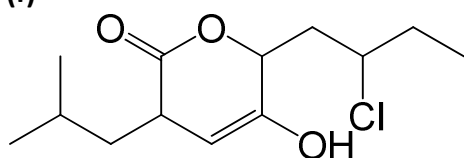
(d)



(e)

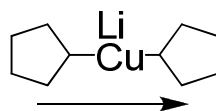
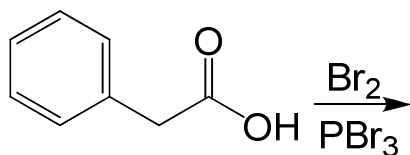


(f)

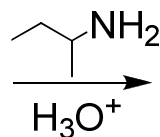
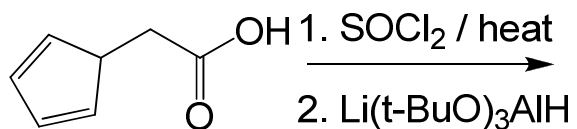


2. Predict the product(s) obtained from the following reactions (2 x 12 = 24 pts)

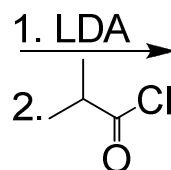
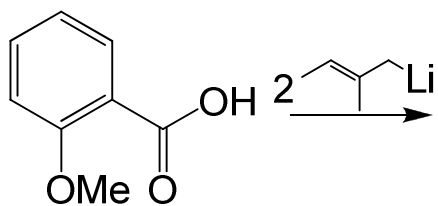
(a)



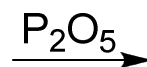
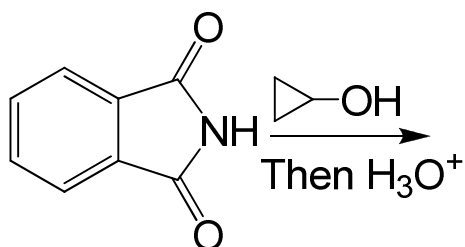
(b)



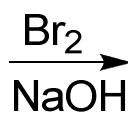
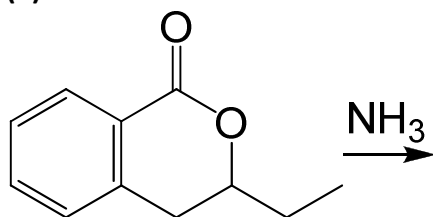
(c)



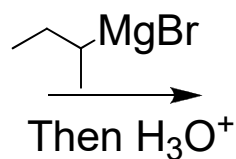
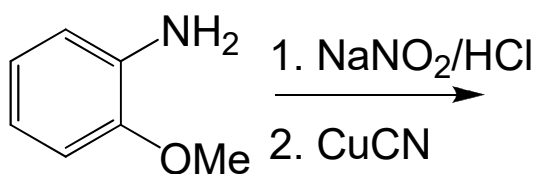
(d)



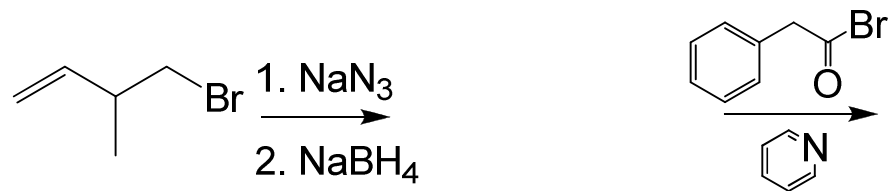
(e)



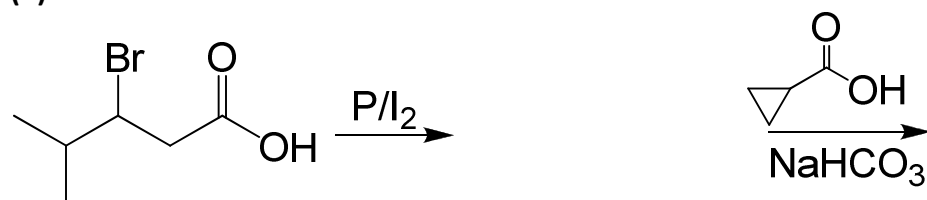
(f)



(g)



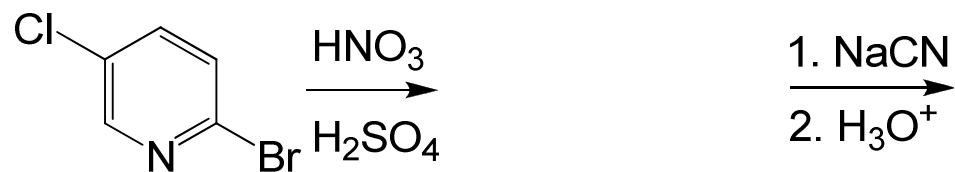
(h)



(i)



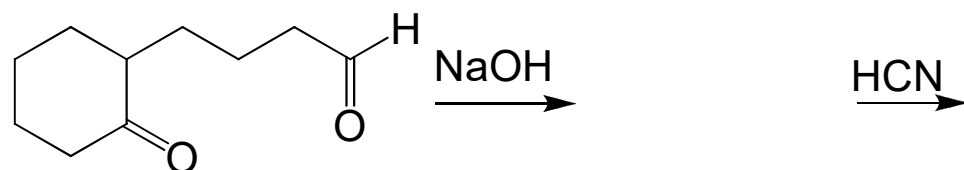
(j)



(k)

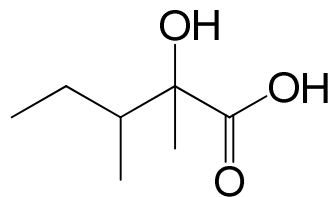
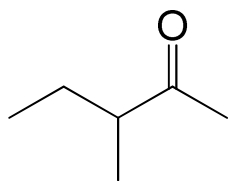


(l)

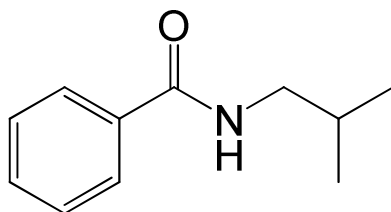
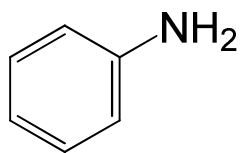


3 Show how you would synthesize each of the following compounds from the given starting materials (you must show all the intermediates to receive full credit) (4 x 2 = 8 pts)

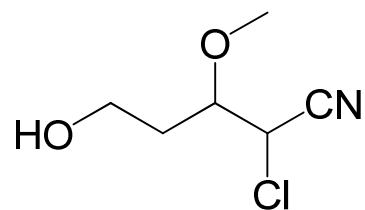
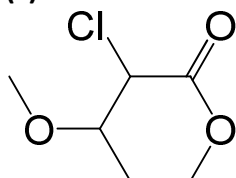
(a)



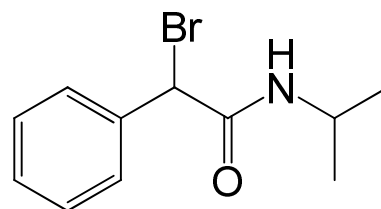
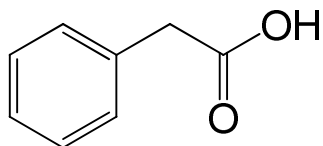
(b)



(c)



(d)



4. Propose a mechanism consistent with the following reactions (you must show all the intermediates and arrows indicating the electron flow to receive full credit) (3 x 2 = 6 pts)

(a)



(b)

(c)