SOLUTIONS
PROBLEM SET
18

19.9 Cyanohydrin is derned from reaction of a ketone and "CN Nu:

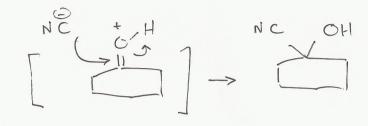
in a Nu: Acyl.

Addition

HO CN CYANOHYDRIN

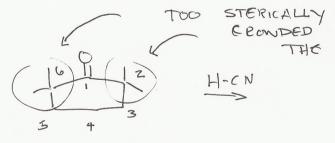
H-cN

CYCLOHEXANGNE



AROUND

THE CARBONYL CARBON



2,2,6,6-TETRAMETHYL CYCLOHEXANONE

19.10 Reaction of a 10 or 20

Amme with a ketone

occurs via a Nu: Acyl

addition. The product

of the reaction is on

I mine or enamine.

IMINE

IMINE

IMINE

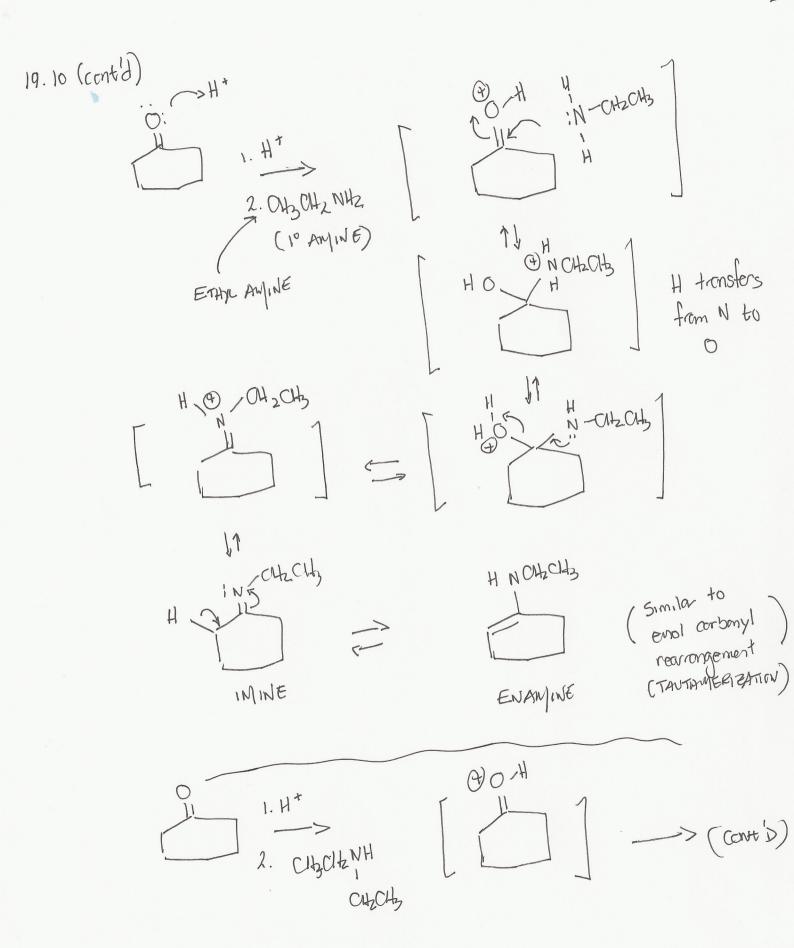
From

from

from

(1° or 2° ANINES)

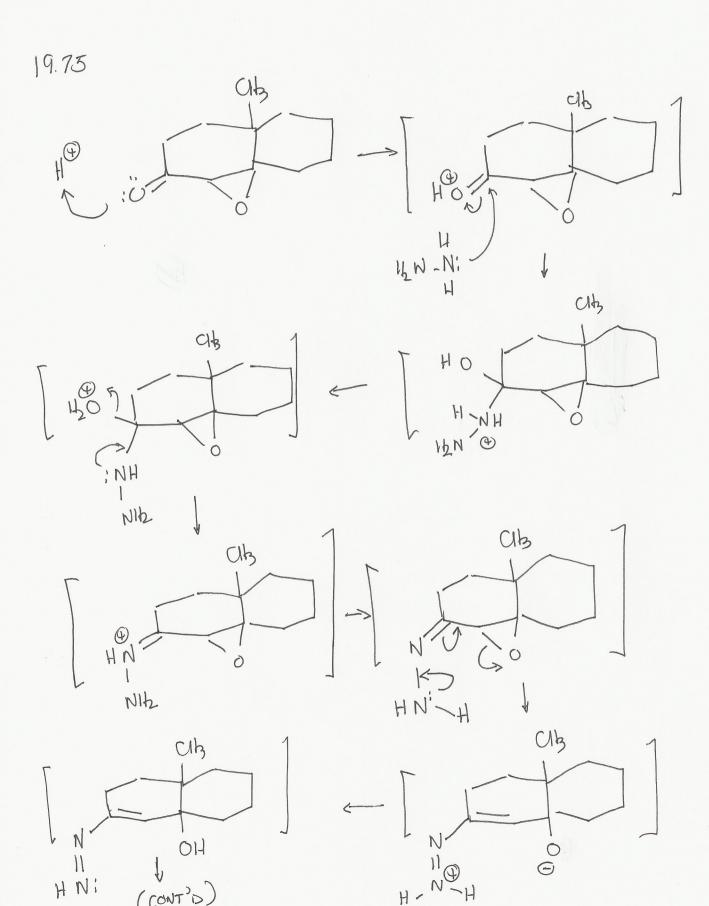
EN AMINE



There are 4 possible stereoisemes of isocutrate

19.61 (cont'd)

$$\begin{array}{c|c} CH_3 & CH_3 &$$



19.75

Clh

NU

OH

$$N = N - H$$
 $N = N - H$
 $N = N - H$