CONCEPT: HYDROGENATION REACTIONS

- Under this type of reaction $___$ Hs are added to $___$ π bond.
 - □ Due to stability of H₂, a ______ is required to break the H-H bond first.

Hydrogenation Reactions

Alkene

$$H_3C - C = CH_2 + H_2$$

Catalyst

Alkane

Alkane

Alkane

 $H_3C - C = CH_2 + H_2$
 $C = CH_2 + H_2$

Alkane

 $C = CH_2 + H_3$
 $C = CH_3 +$

EXAMPLE: Identify the major product of the following hydrogenation reaction.

PRACTICE: Write a hydrogenation reaction of the following alkyne and name the organic product formed.

