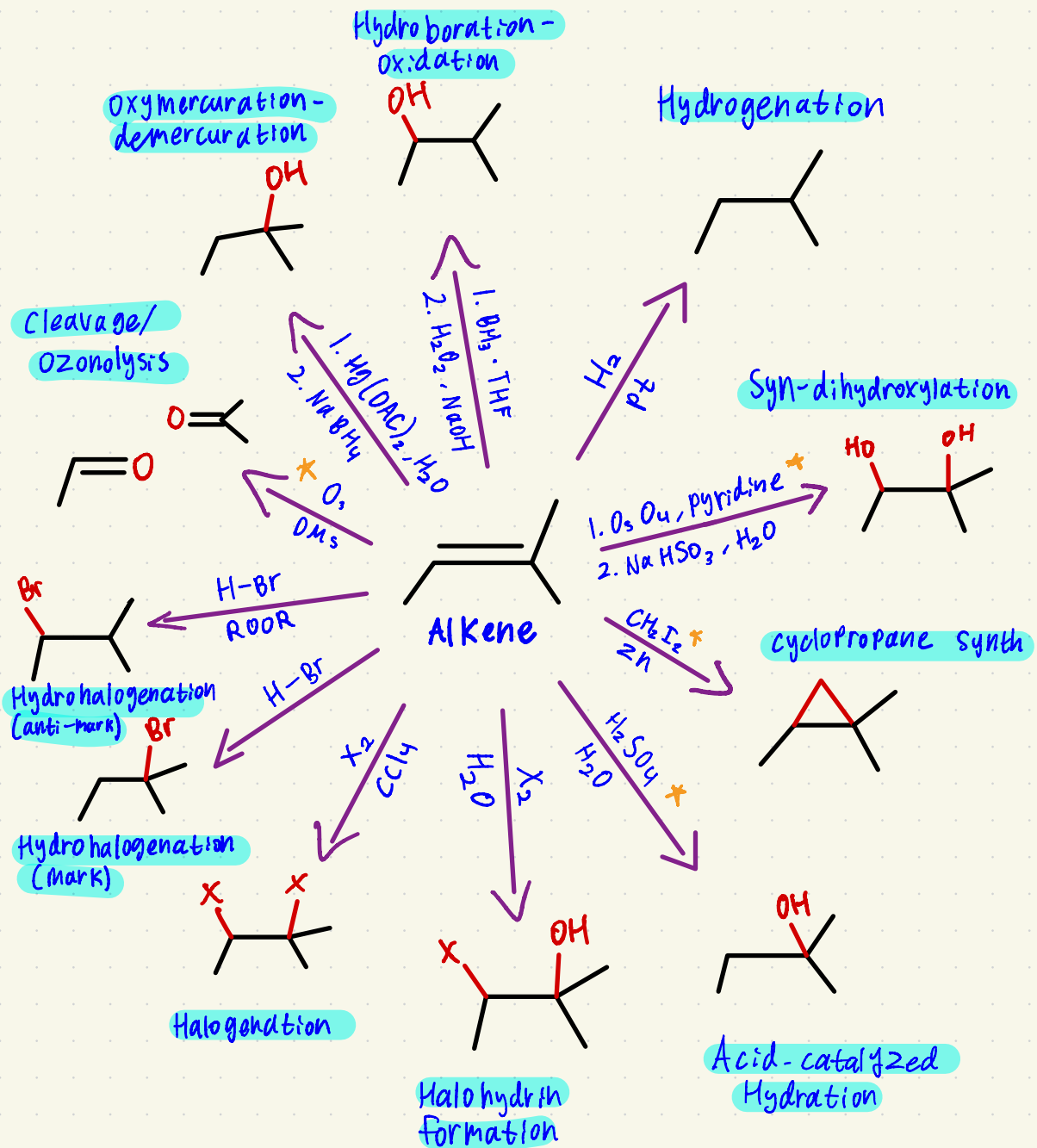
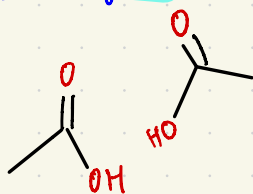


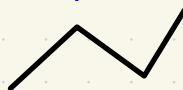


* = more than 1 possible reagent

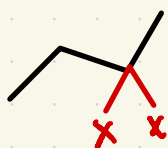
Oxidative cleavage/
Ozonolysis



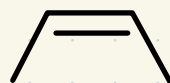
Hydrogenation



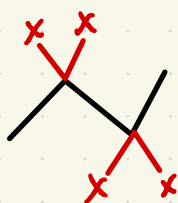
Hydrohalogenation
in excess



Hydrogenation w/
Poisoned catalyst



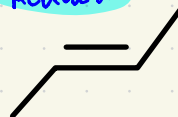
Halogenation
in excess



Acetylide
Formation



Dissolving Metal
Reduction



* = more than 1 possible reagent