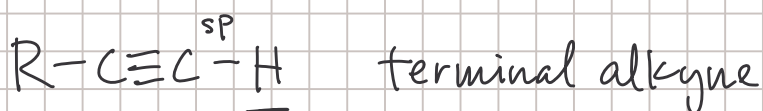
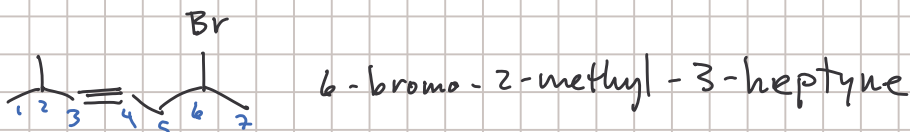
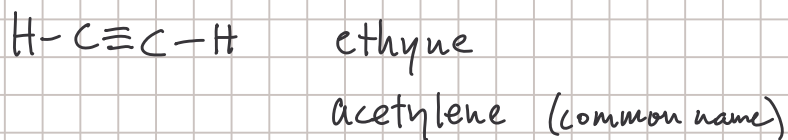


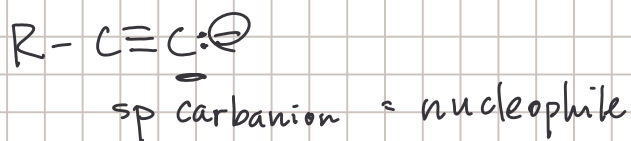
Ch 9 Alkynes

Note Title

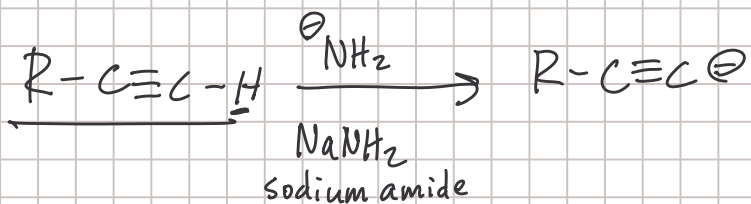
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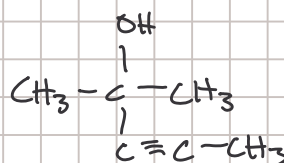
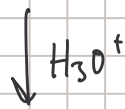
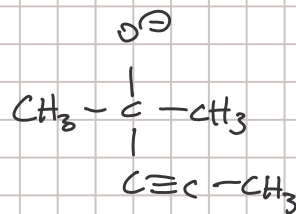
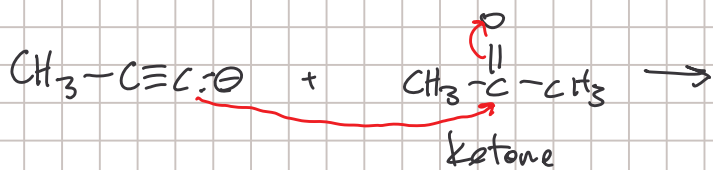
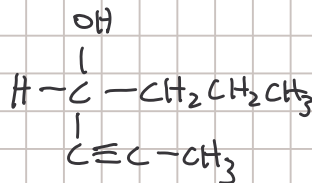
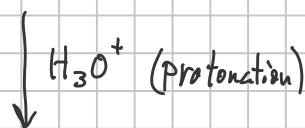
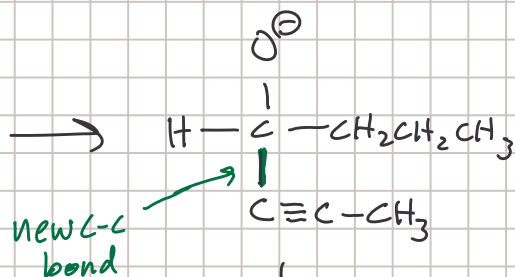
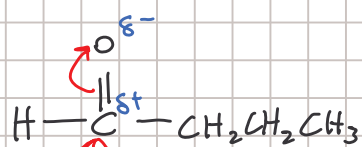
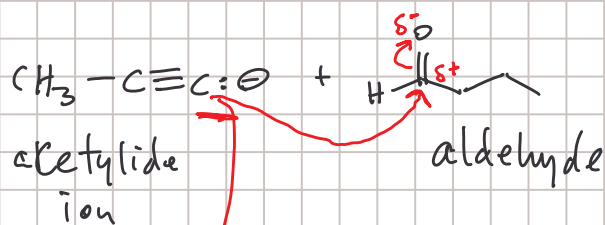
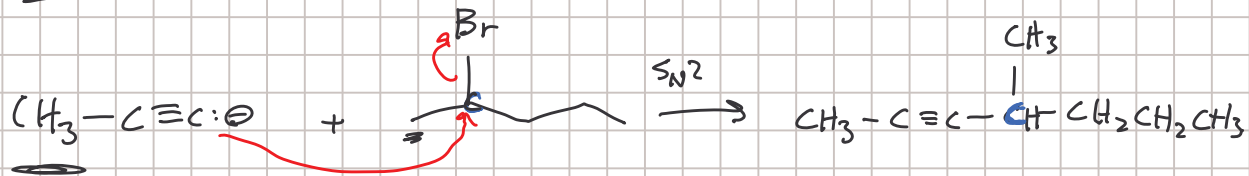
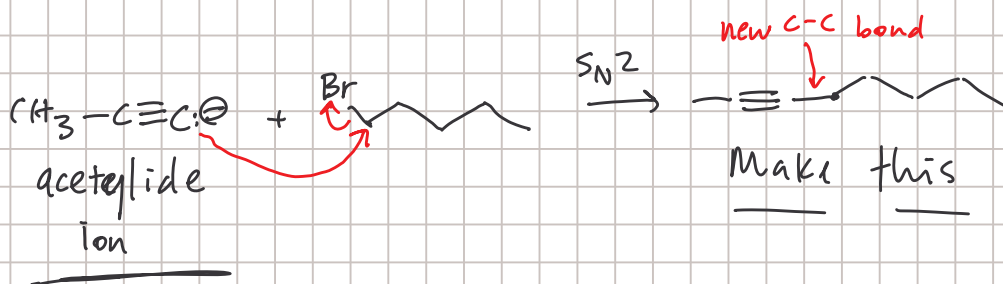


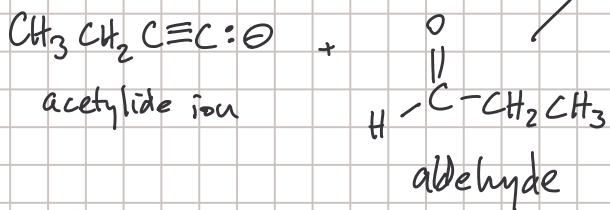
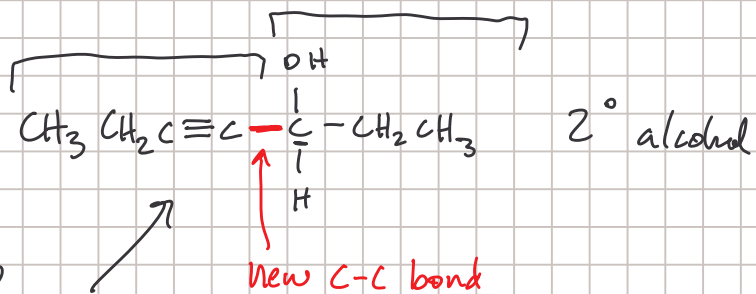
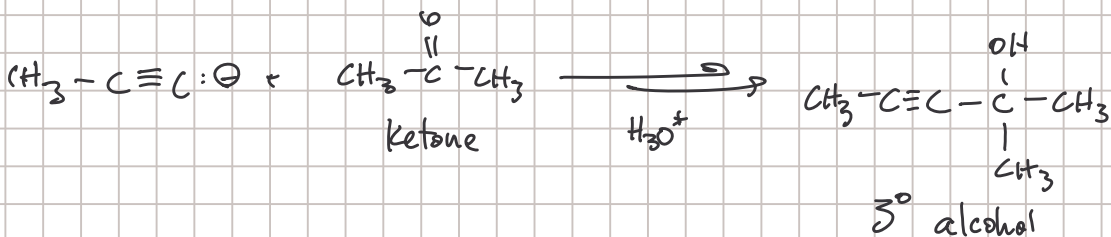
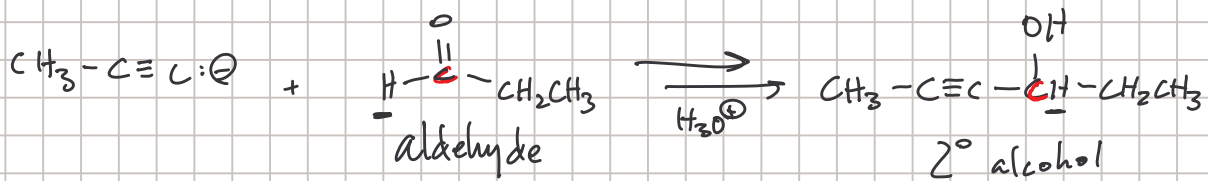
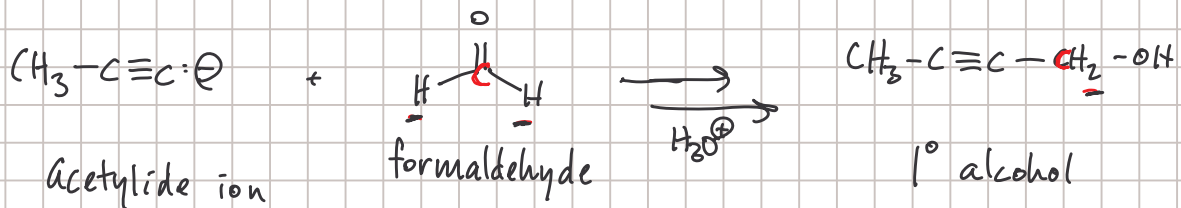
↓ alkyne proton is relatively acidic



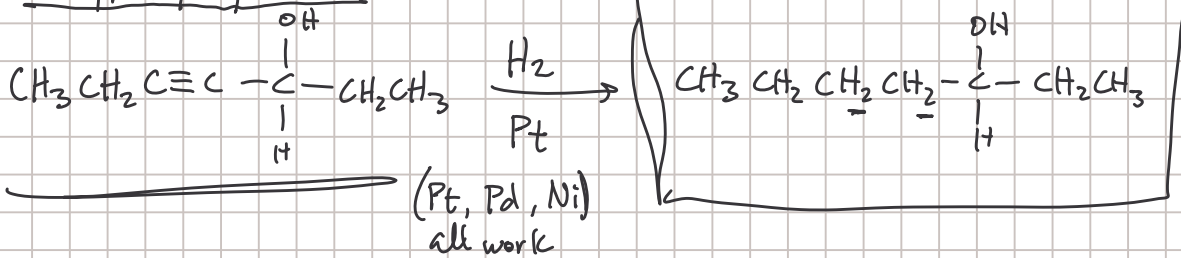
<u>Acid</u>	<u>conj base</u>	<u>pKa</u>	(lower pKa = stronger acid)
$\text{R}-\text{OH}$	$\text{R}-\text{O}^{\ominus}$ weaker base	~16	
$\text{R}-\text{C}\equiv\text{C}-\text{H}$	$\text{R}-\text{C}\equiv\text{C}^{\ominus}$	~25	
NH_3	NH_2^{\ominus} stronger base	~35	
$\text{R}-\text{C}=\text{C}-\text{H}$	$\text{R}-\text{C}=\text{C}^{\ominus}$	~40	
$\text{R}-\text{CH}_3$	$\text{R}-\text{CH}_2^{\ominus}$	~50	

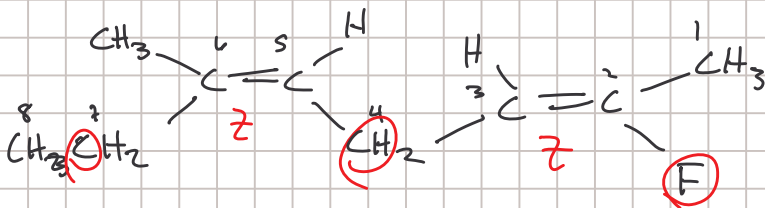
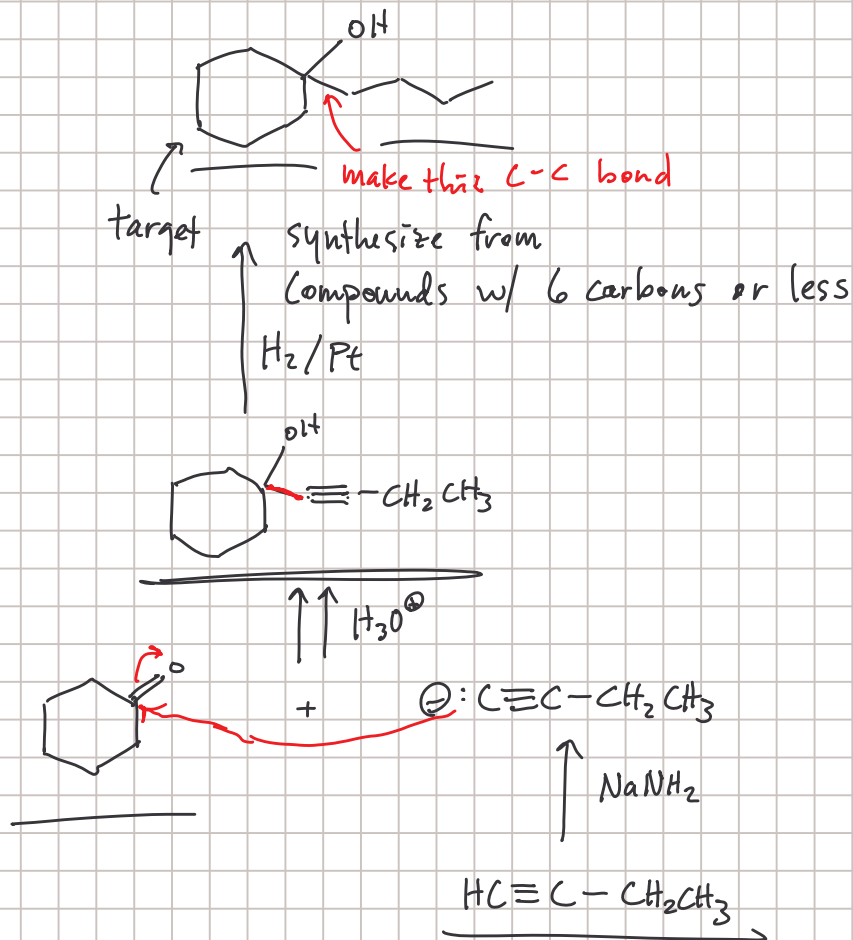






Catalytic hydrogenation





(Z,Z)-2-fluoro-6-methyl-2,5-octadiene

