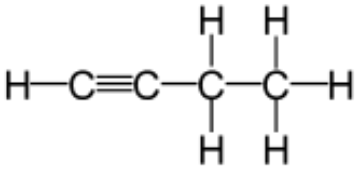
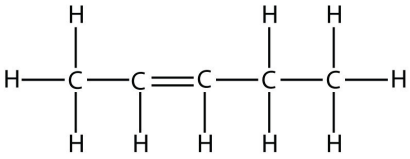
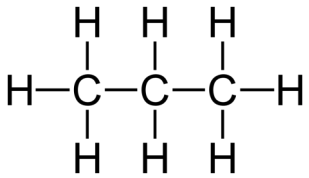
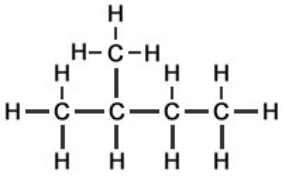
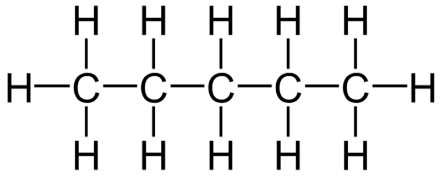
Organic Chem Review for Regents

Compound Name	Name of the HOMOLOGOUS SERIES it belongs to	Draw Structural Formula	Is this a Saturated or Unsaturated Hydrocarbon?	Molecular Formula
1-butyne	ALKYNES		UNSAT.	C_4H_6
2-pentene	ALKENES		UNSAT.	C_5H_{10}
propane	ALKANES		SAT.	C_3H_6
methyl butane	BRANCHED ALKANES		SAT.	C_5H_{12}

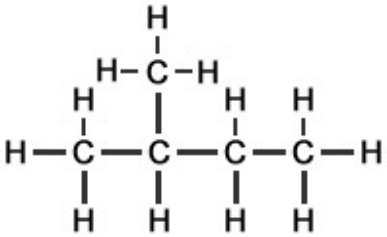
Draw and name an isomer for pentane

"normal" pentane (n-pentane)



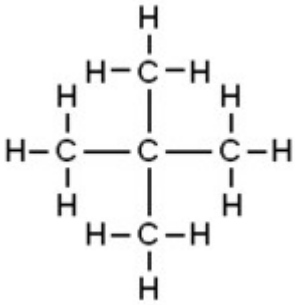
Do it again

Methyl butane (isopentane)

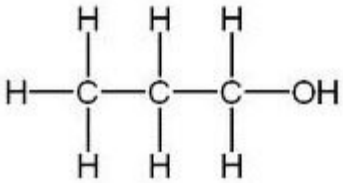


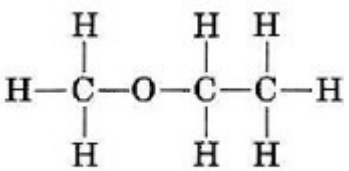
Do it a 3rd time

Dimethyl propane (neopentane)

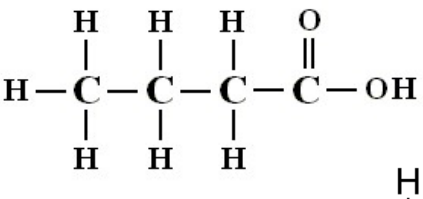


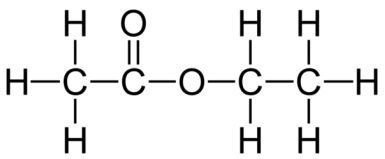
Draw 1 propanol and draw and name an ETHER that is its ISOMER



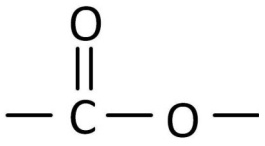
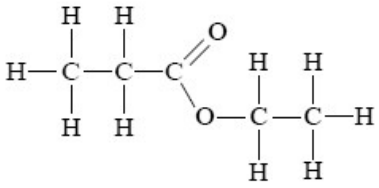
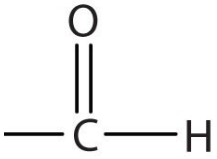
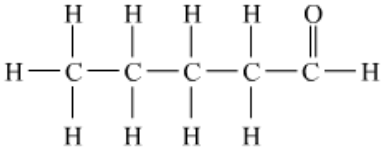
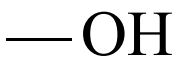
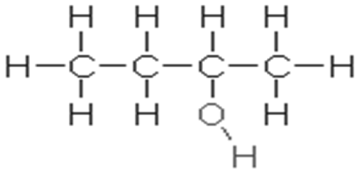
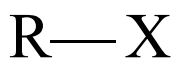
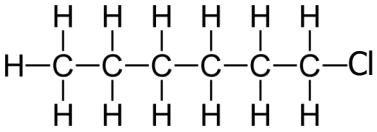
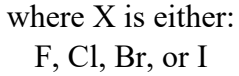
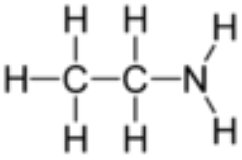
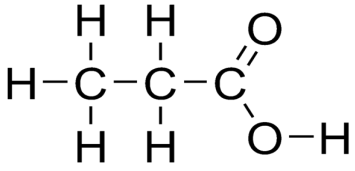
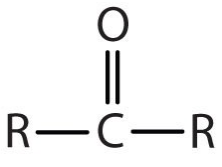
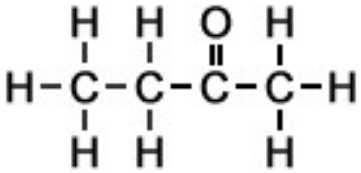
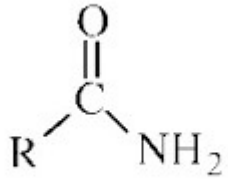
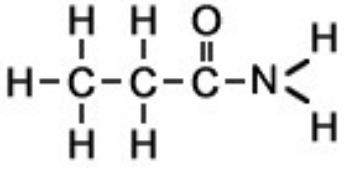


Methyl ethyl ether





Draw Butanoic Acid, draw + name an ESTER ISOMER

Compound Name	Class or type of organic molecule	Draw the Functional Group	Structural formula	Condensed Structural Formula
ethyl propanoate	ESTER			$CH_3CH_2COOCH_2CH_3$
pentanal	ALDEHYDE			$CH_3CH_2CH_2CH_2CHO$
2butanol	ALCOHOL			$CH_3CH_2CHOHCH_2CH_3$
1chloro-hexane	HALO-CARBON	 where X is either: F, Cl, Br, or I		$CH_3(CH_2)_5CH_2Cl$
ethanamine	AMINE			$CH_3CH_2NH_2$
propanoic acid	ORGANIC ACID			CH_3CH_2COOH
butanone	KETONE			$CH_3CH_2COCH_3$
propanamide	AMIDE			$CH_3CH_2CONH_2$