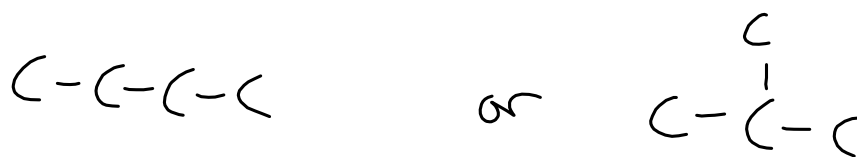


Fn gp	nomenclature	Structural	Condensed Structure
Aldehyde ^{end}	-al	$\text{R}-\overset{\text{O}}{\parallel}{\text{C}}-\text{H}$	$\text{R}-\text{CHO}$
Ketone ^{middle}	-one	$\text{R}-\overset{\text{O}}{\parallel}{\text{C}}-\text{R}'$	$\text{R}-\text{CO}-\text{R}'$
Alcohol	-ol (glycol) -triol (glycerol) 1°, 2°, 3°	$\text{R}-\text{OH}$	$\text{R}-\text{OH}$
Acids	-oic acid	$\text{R}-\overset{\text{O}}{\parallel}{\text{C}}-\text{OH}$	$\text{R}-\text{COOH}$
Ether	-yl -yl ether	$\text{R}-\text{O}-\text{R}'$	$\text{R}-\text{O}-\text{R}'$
ester	-yl -oate 'o' side 'o' side	$\text{R}-\overset{\text{O}}{\parallel}{\text{C}}-\text{O}-\text{R}'$	$\text{R}-\text{COO}-\text{R}'$
Amine	-yl amine	$\text{R}-\overset{\text{H}}{\underset{\text{H}}{\text{N}}}-\text{H}$	$\text{R}-\text{NH}_2$
Amide	-yl Amide	$\text{R}-\text{N}-\overset{\text{O}}{\parallel}{\text{C}}-\text{R}'$	$\text{R}-\text{NCO}-\text{R}'$
Halogenation Halogen substitution	ex. chloro methane	$\text{R}-\text{Halogen(s)}$	

May 5-7:57 AM

ISOMER

Same molecular formula \Rightarrow different structural formula



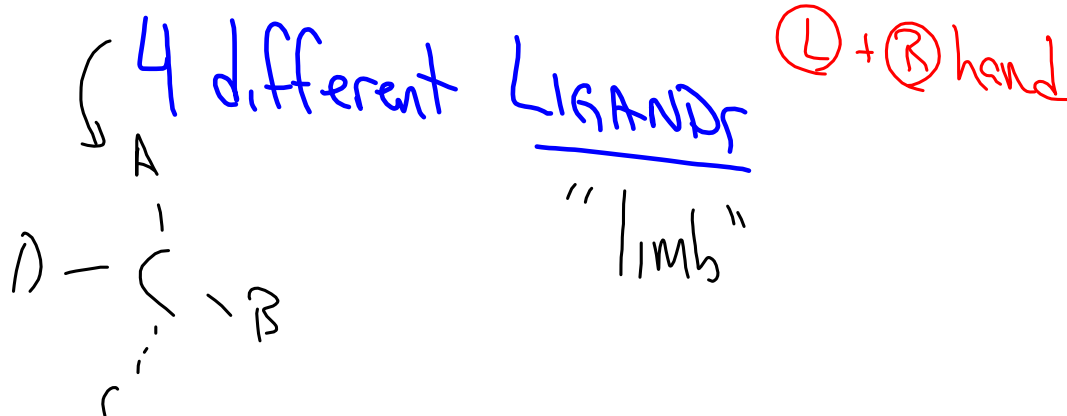
Condensed Same # of each element.

May 5-8:17 AM

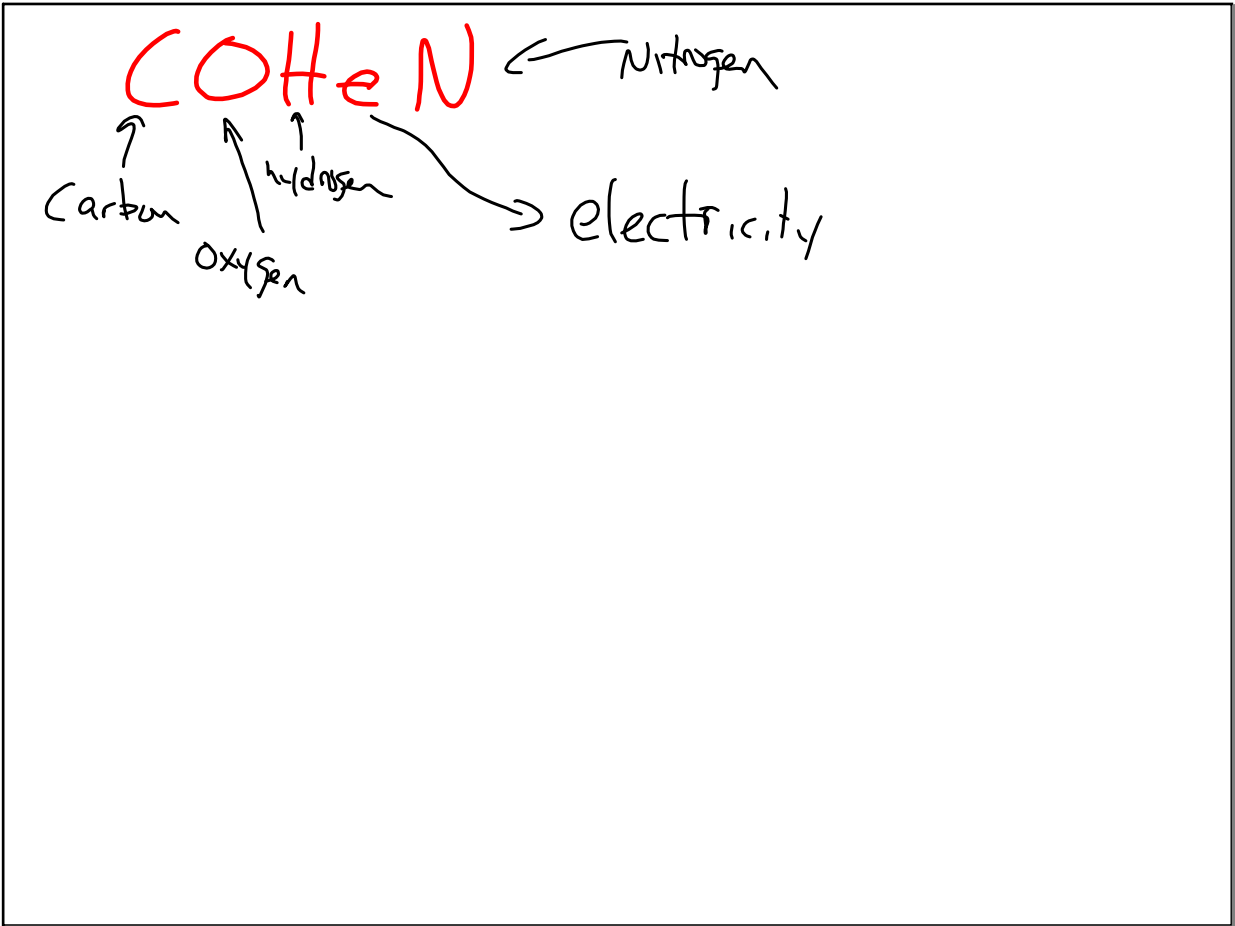
Chiral structures

"Non-superimposable mirror images"

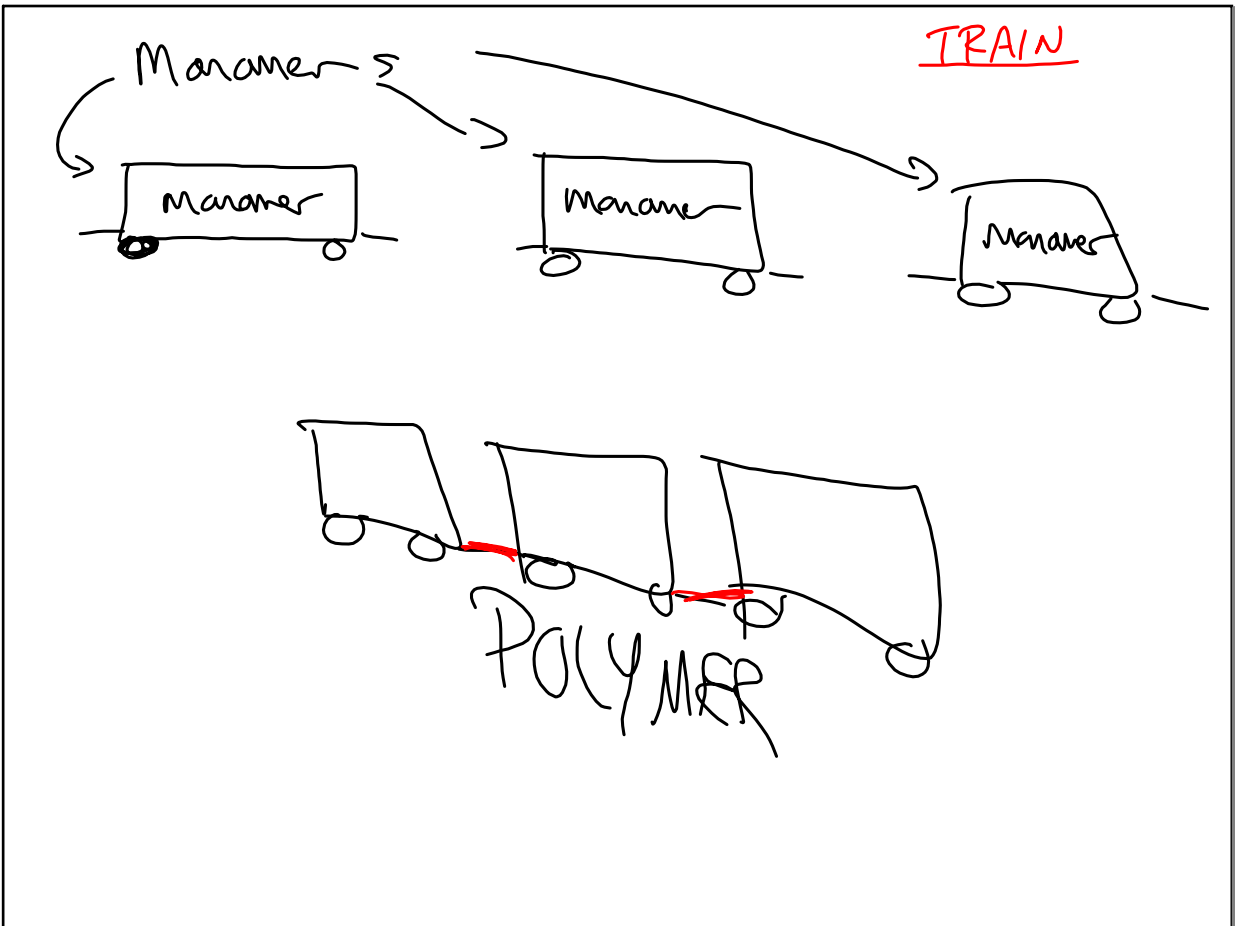
\rightarrow enantiomers of each other



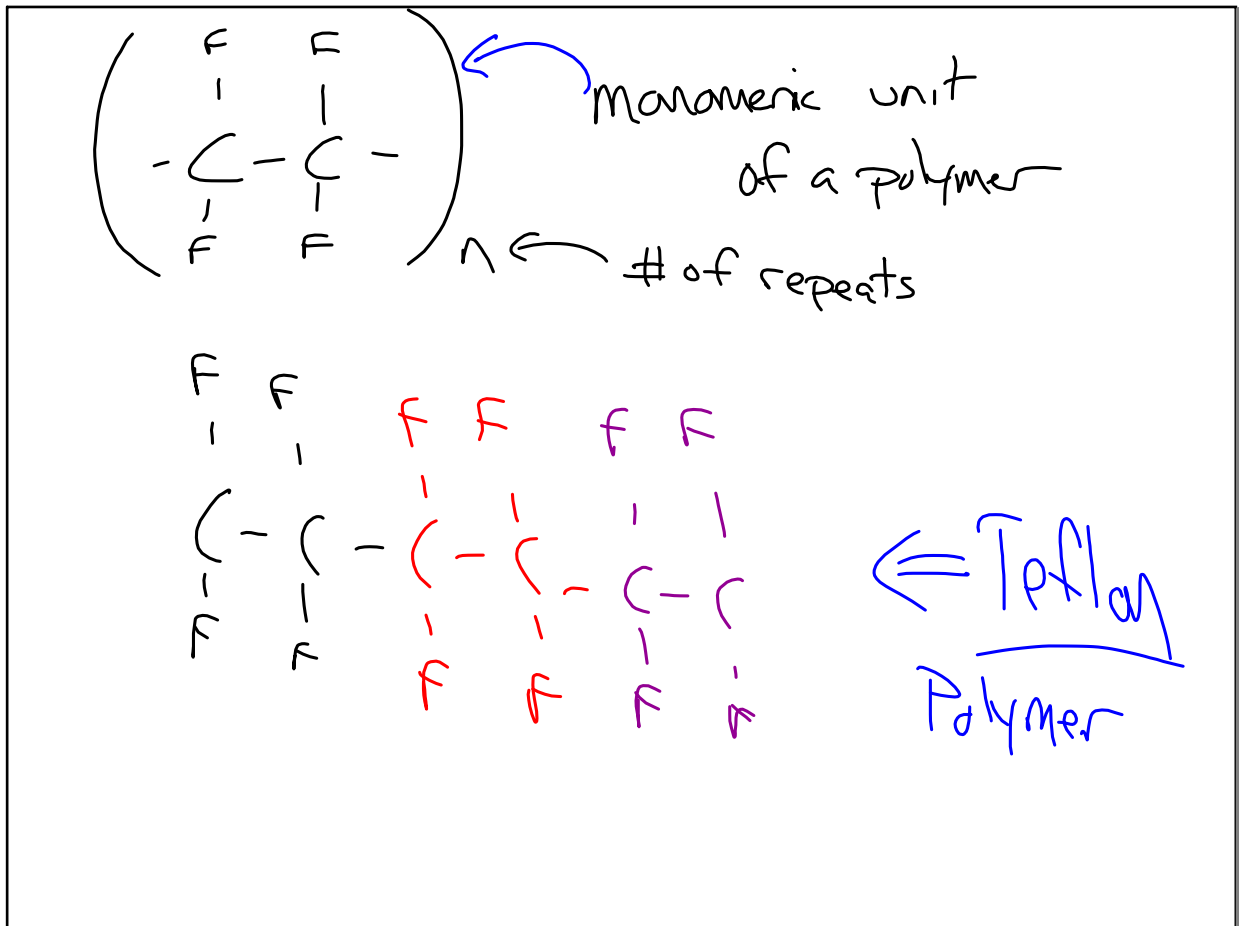
May 5-8:21 AM



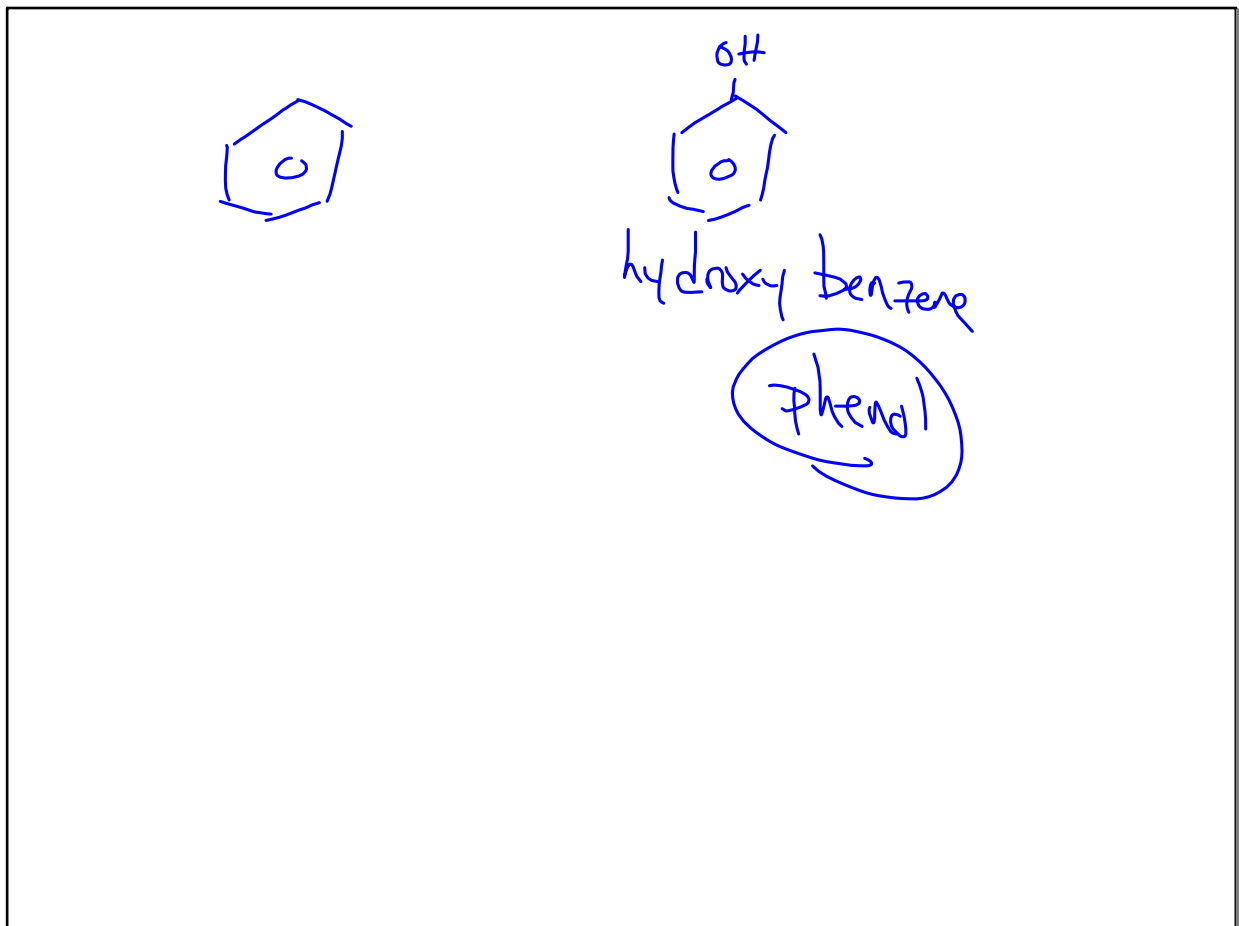
May 5-8:48 AM



May 5-8:49 AM



May 5-8:51 AM



May 5-8:58 AM

(4) $\frac{80}{16} = 5$ half lives.

100% $\xrightarrow{1}$ 50 $\xrightarrow{2}$ 25 $\xrightarrow{3}$ 12½ $\xrightarrow{4}$ 6¼ $\xrightarrow{5}$ 3⅛

$$\ln A_t = -kt + \ln A_0$$

$$\ln A_t = -(0.0433)(80) + \ln(10)$$

$$A_t = 0.3127 \text{ mg}$$

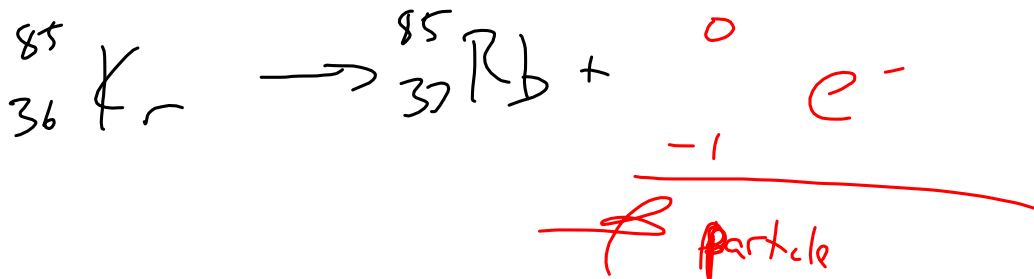
$$k = \frac{0.693}{16}$$

$$k = 0.0433$$

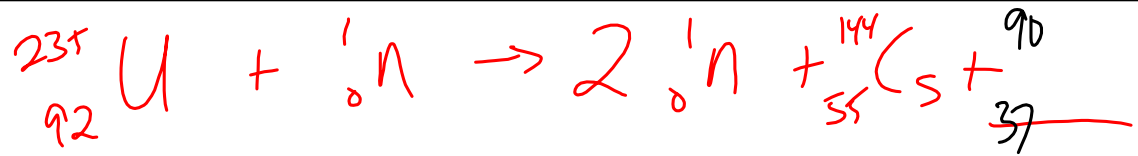
$$\% = \frac{\text{Part}}{\text{Whole}} \times 100$$

$$\frac{0.3127}{10} \times 100 = 3.127\%$$

May 5-9:10 AM



May 5-9:14 AM



May 5-9:15 AM