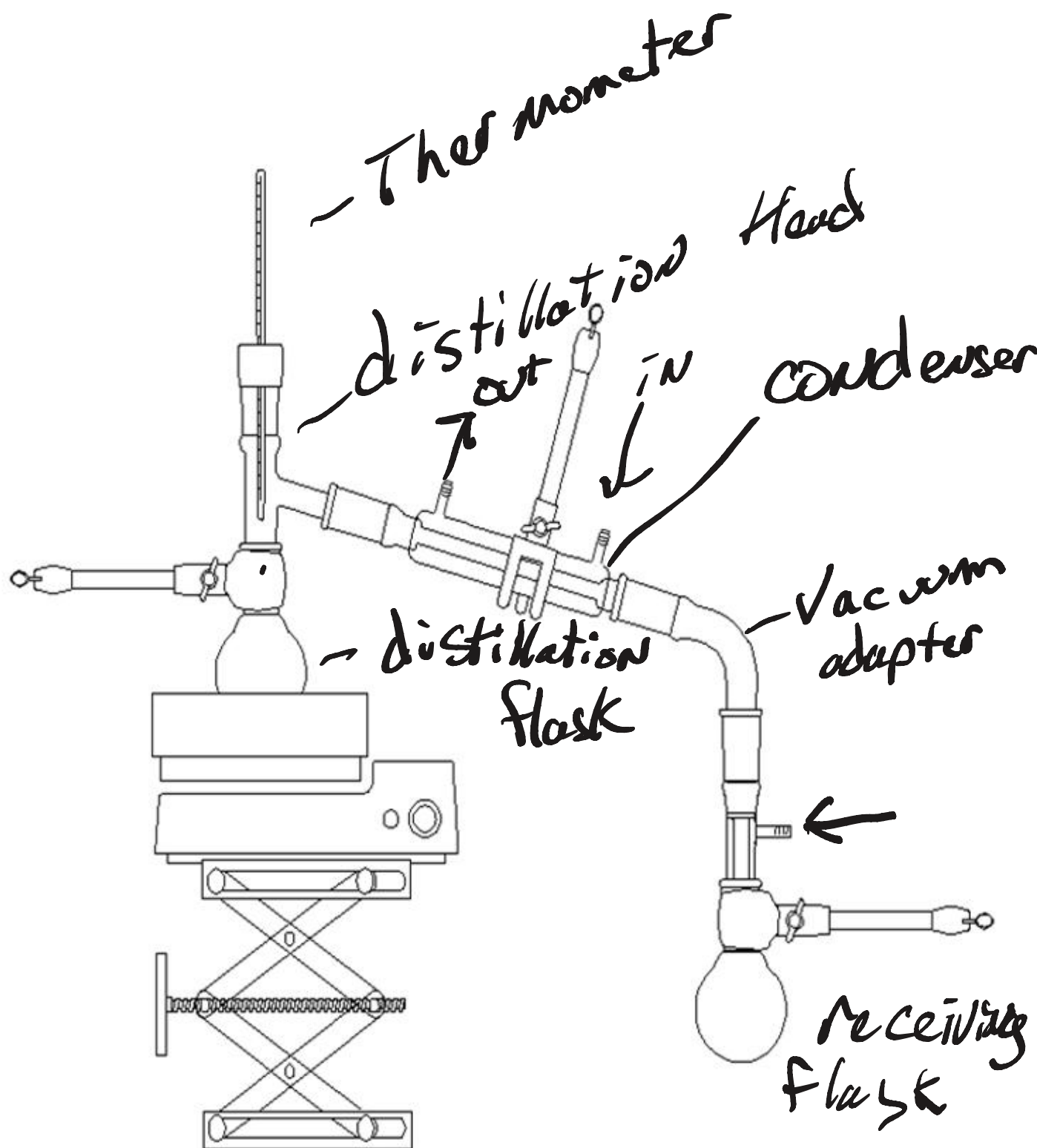


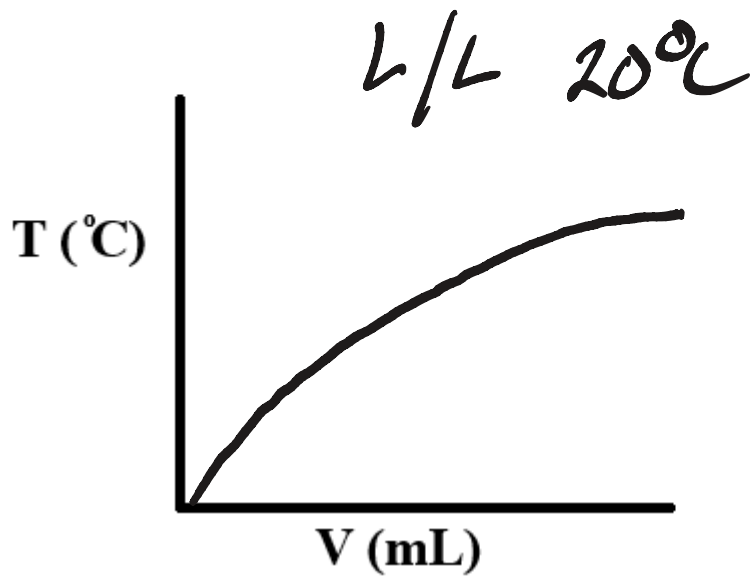
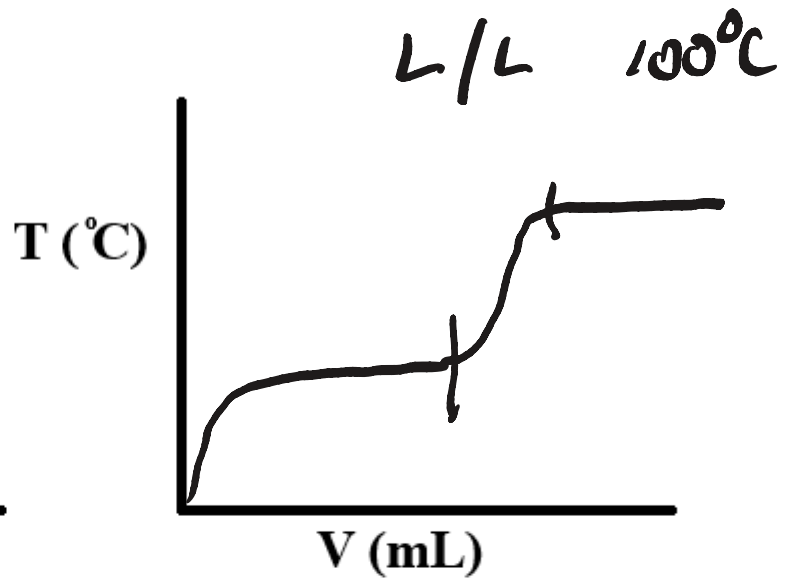
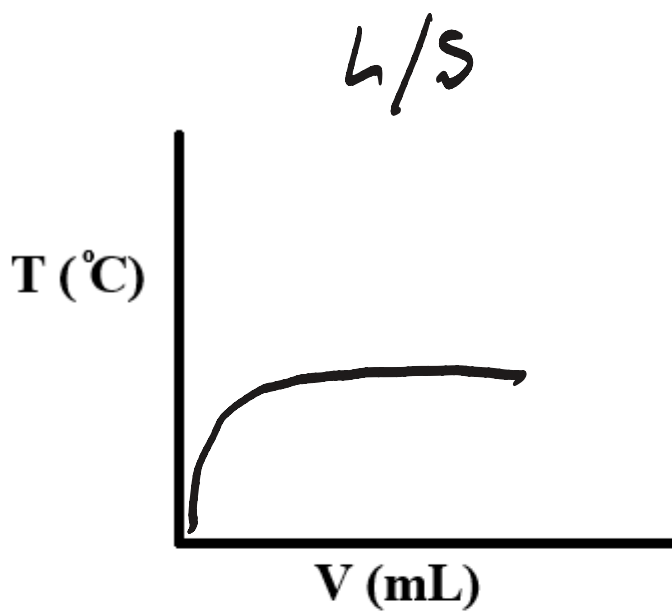
Distillation

128K

9/21/26

Simple distillation S/L





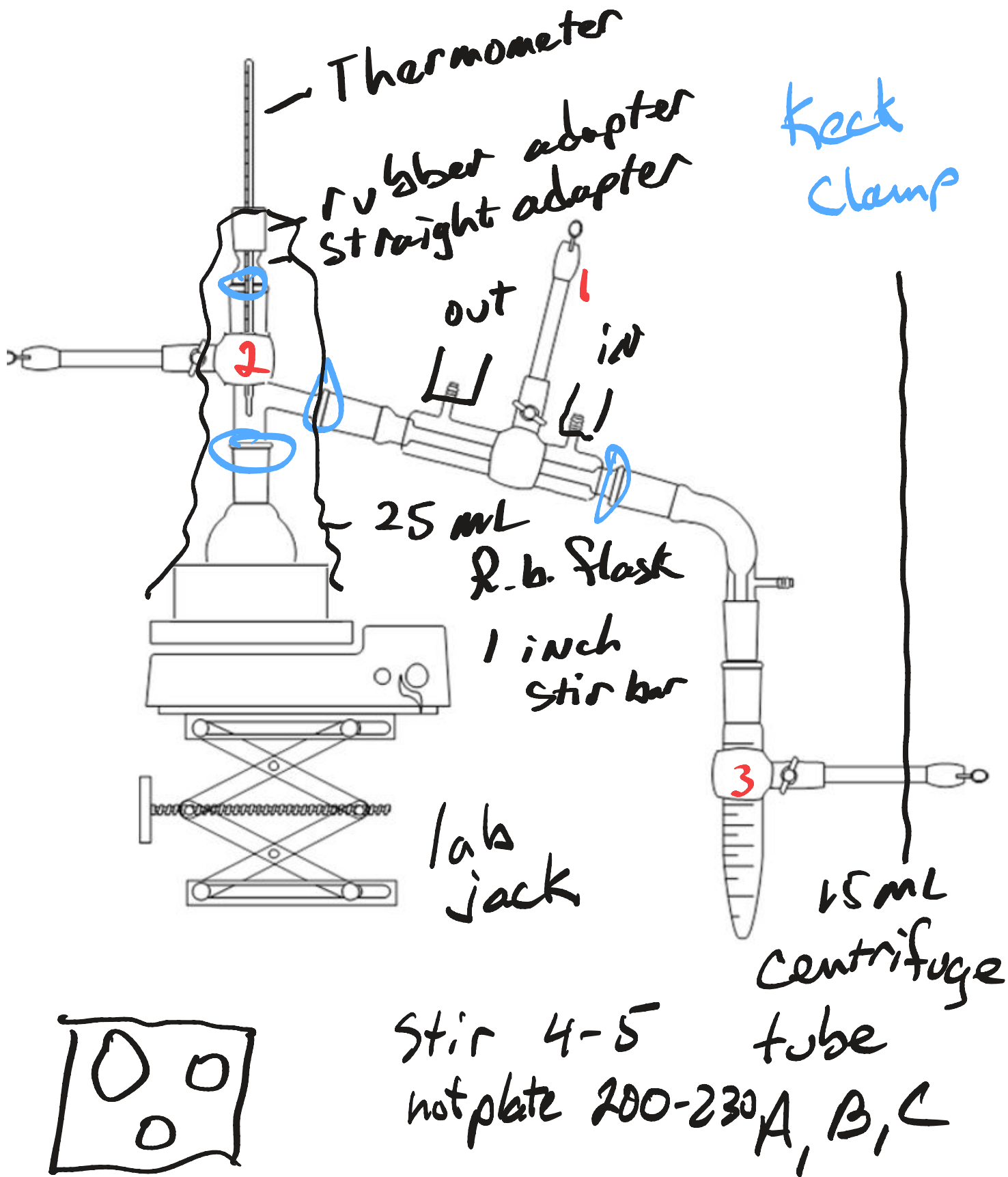
Fractional
Distillation

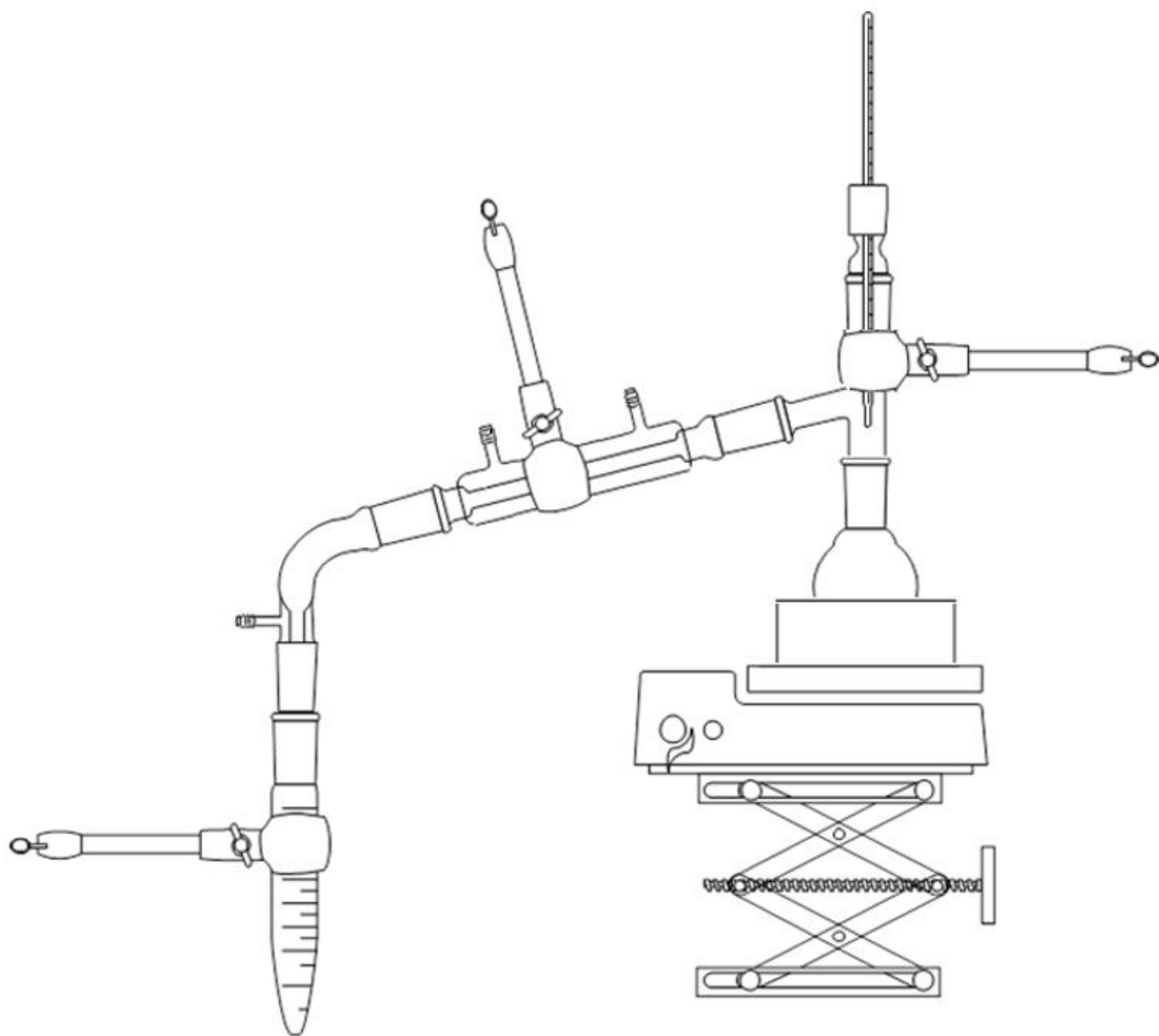
acetone / toluene

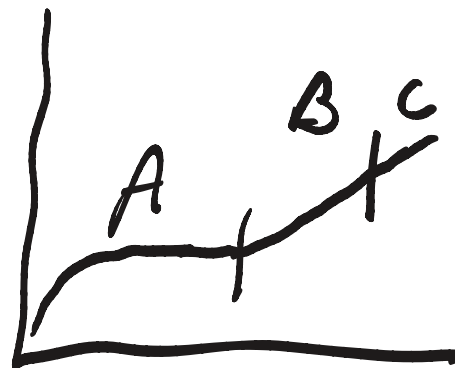
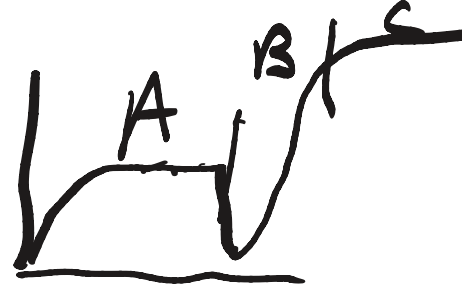
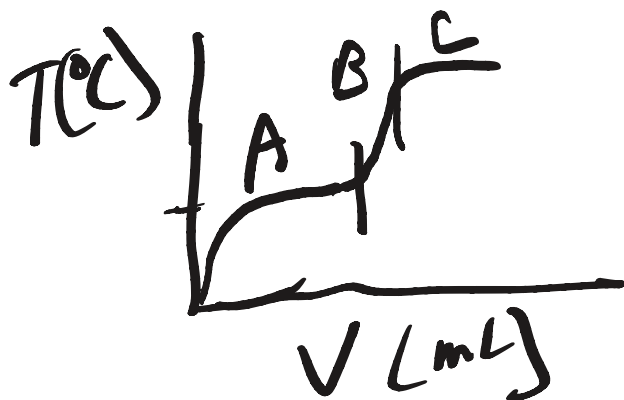
15 mL

1. prove acetone
toluene

2 ratio?







Fraction	Volume (mL)	%A / %T
A	5	100% / 0%
B	5	
C	5	0% / 100%

gas chromatography

Non Polar mobile phase

Polar Stationary phase

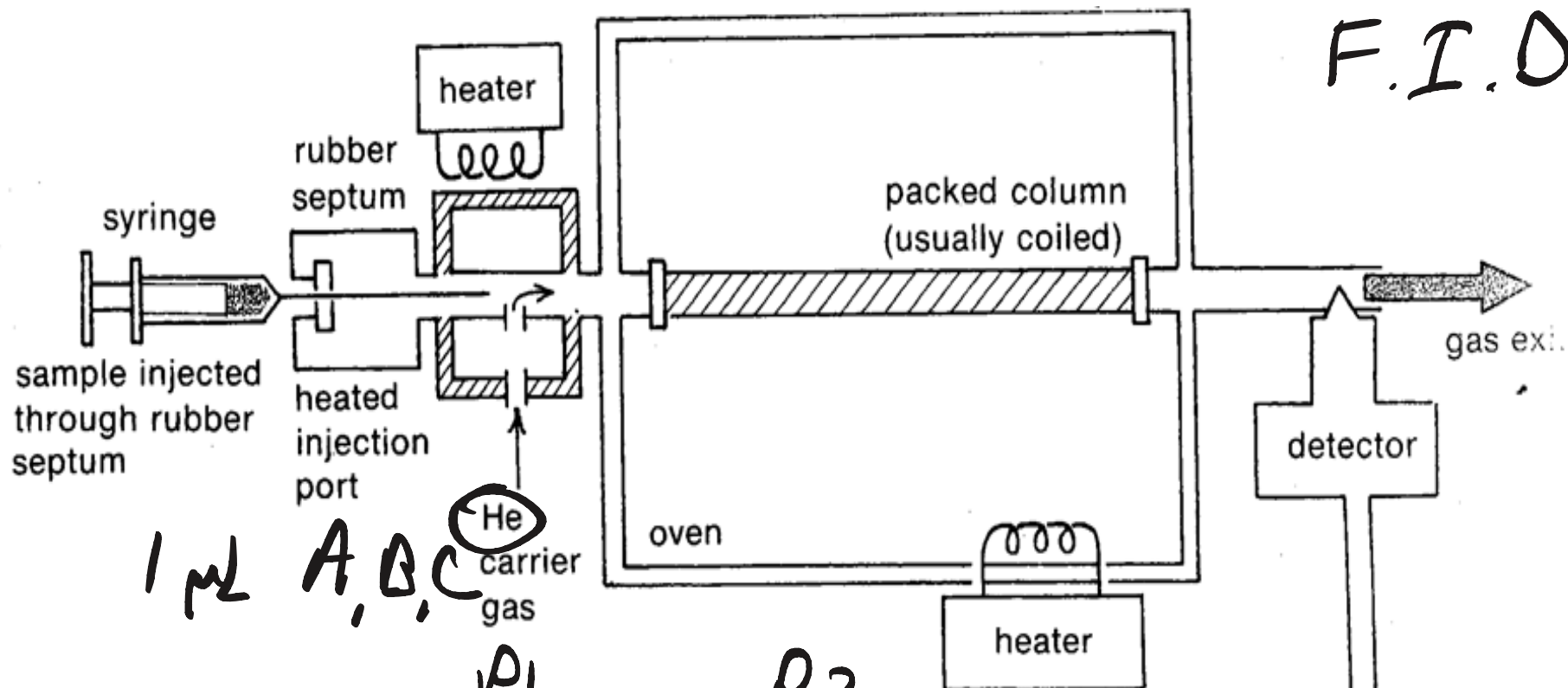
P, NP

B.P. °C

Acetone 1st

Toluene 2nd

F.I.D

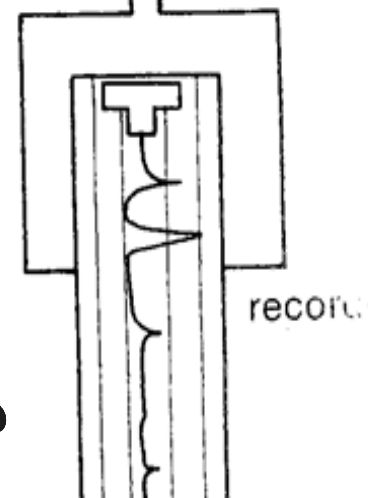


1 mL A, B, C
He carrier gas



P	R _t (min)	Area
1	0.5	1000
2	1.0	1000

total Peak Area



$$PI \quad \frac{1000}{2000} \times 100 = \% \text{ Peak Area}$$

F	Vol (mL)	GC		Vol (mL)	
		%A	%T	A	T
A	5	90	10	4.5	0.5
B	5	50	50	2.5	2.5
C	5	0	100	0	5
				7 / 8	

Don't
Discard

Fractions

Period

$$7/15 \times 100 = \% A$$

$$8/15 \times 100 = \% T$$

