

Distillation

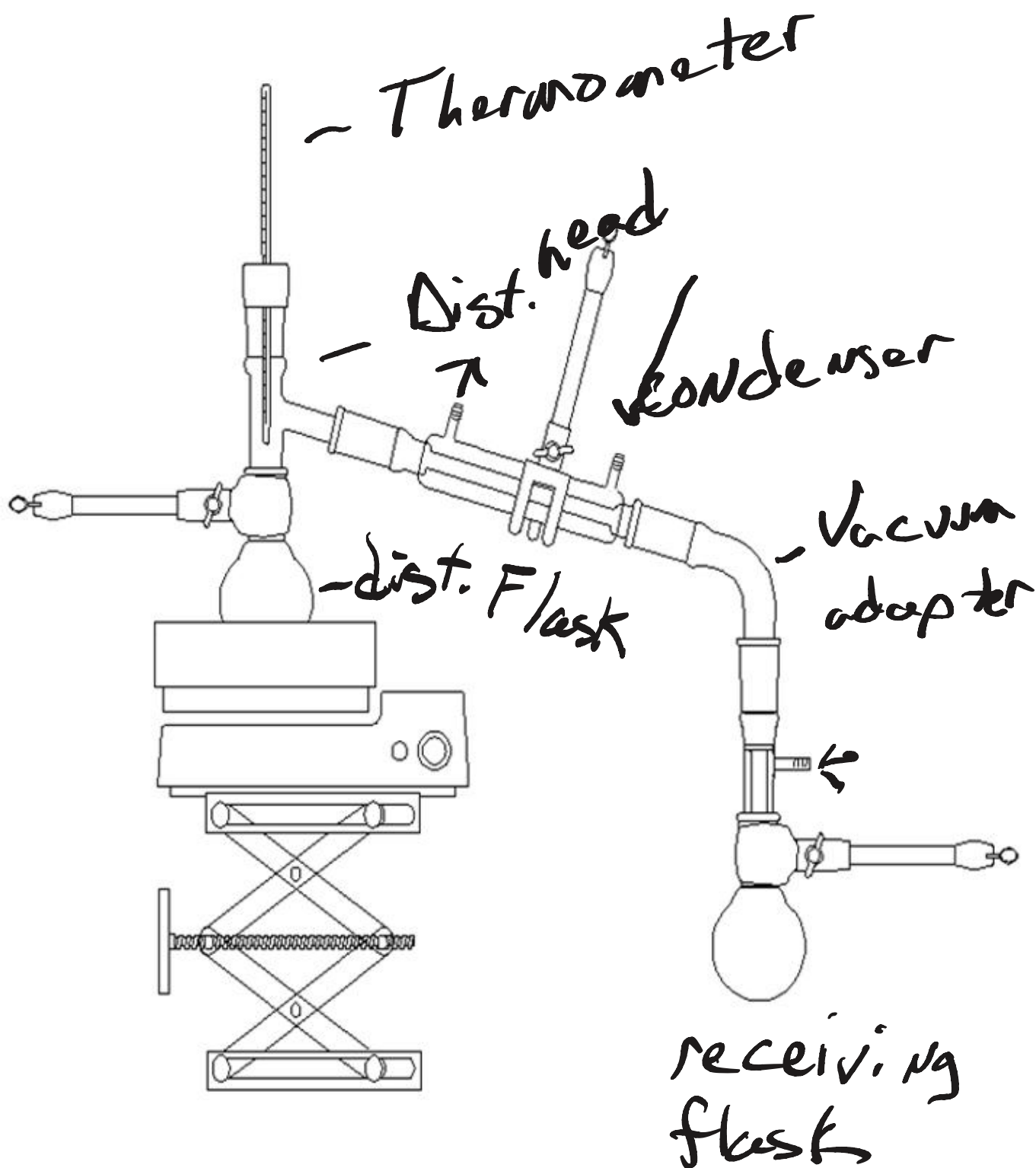
220C

9/10/26

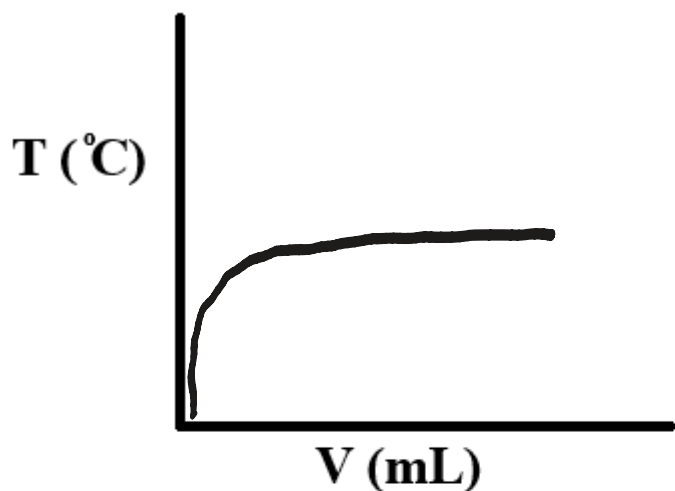
Simple

L/S

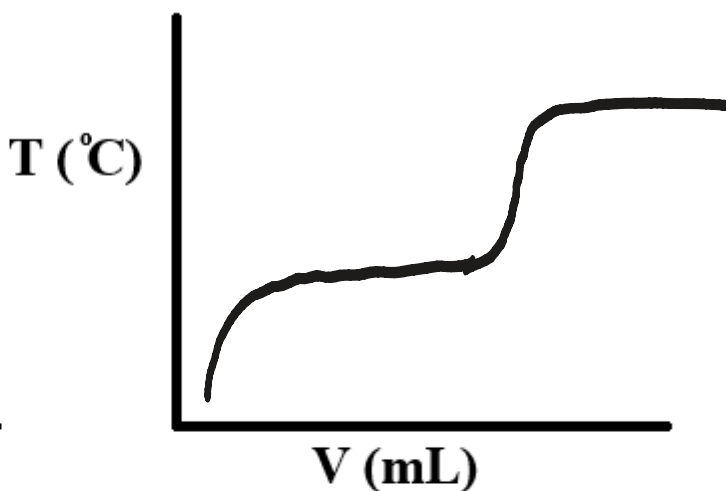
L/L



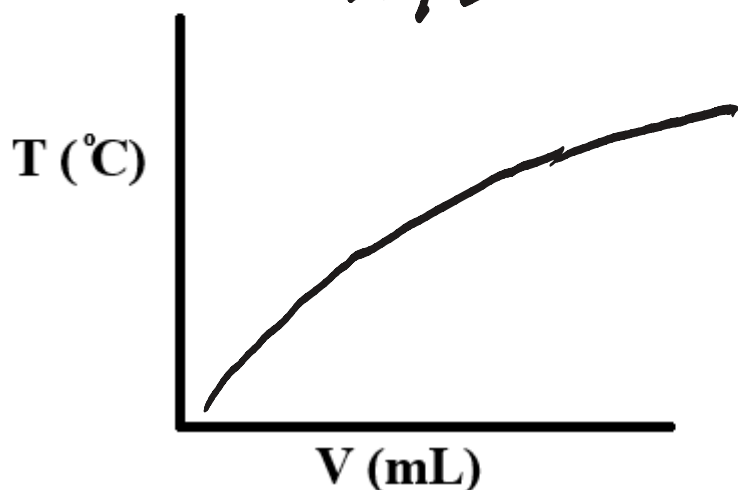
L/S



L/L 100 °C



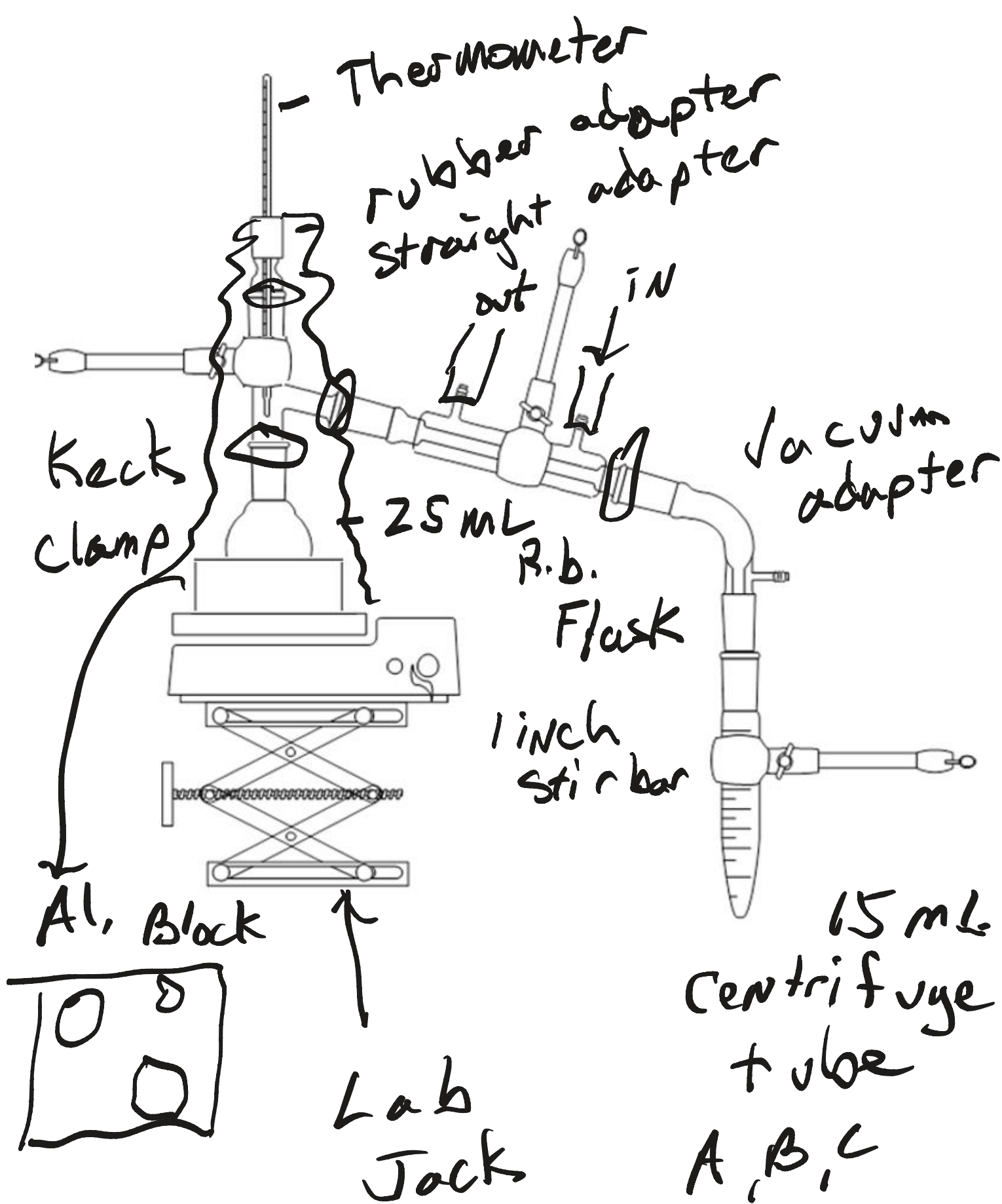
L/L 20 °C

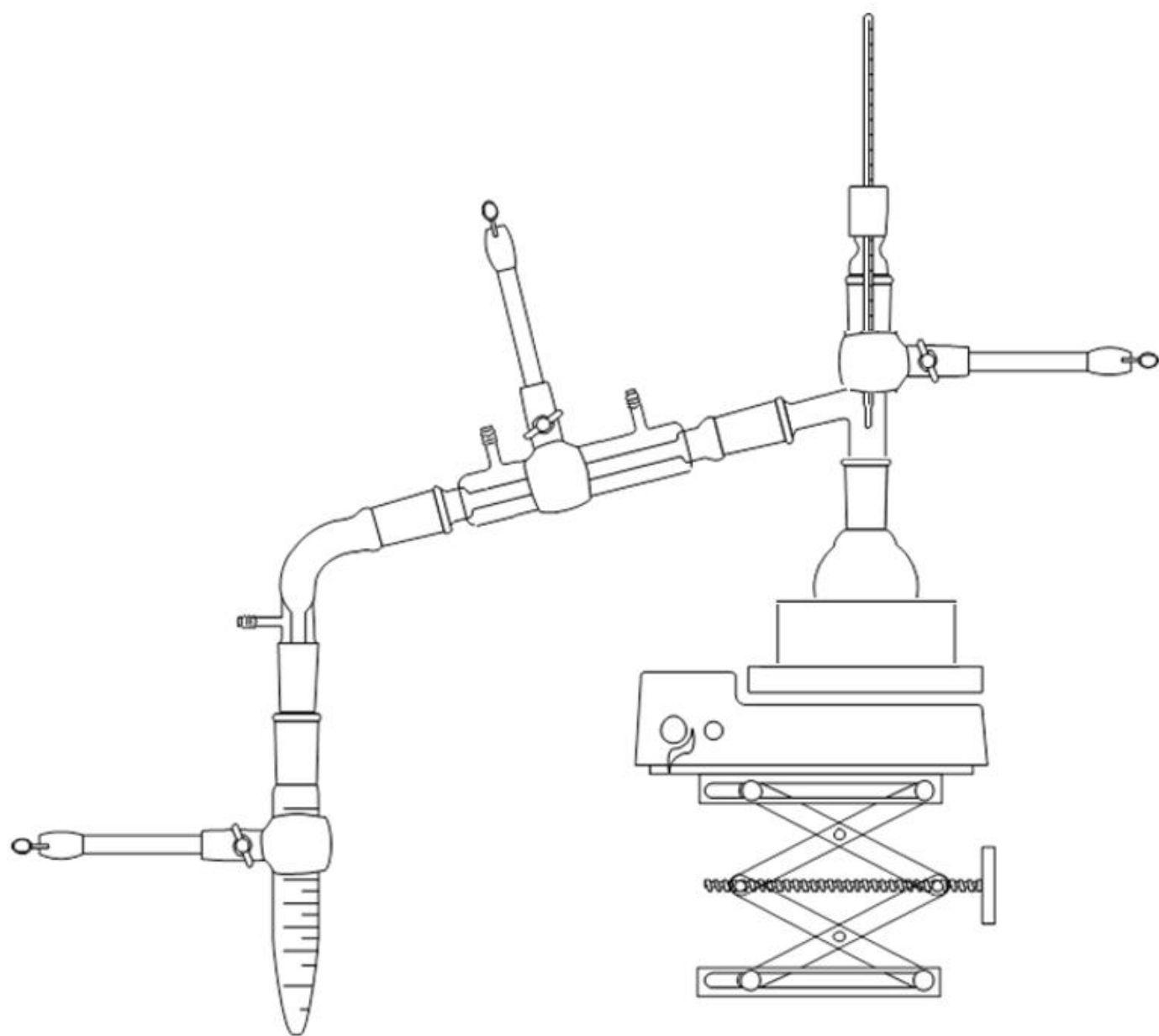


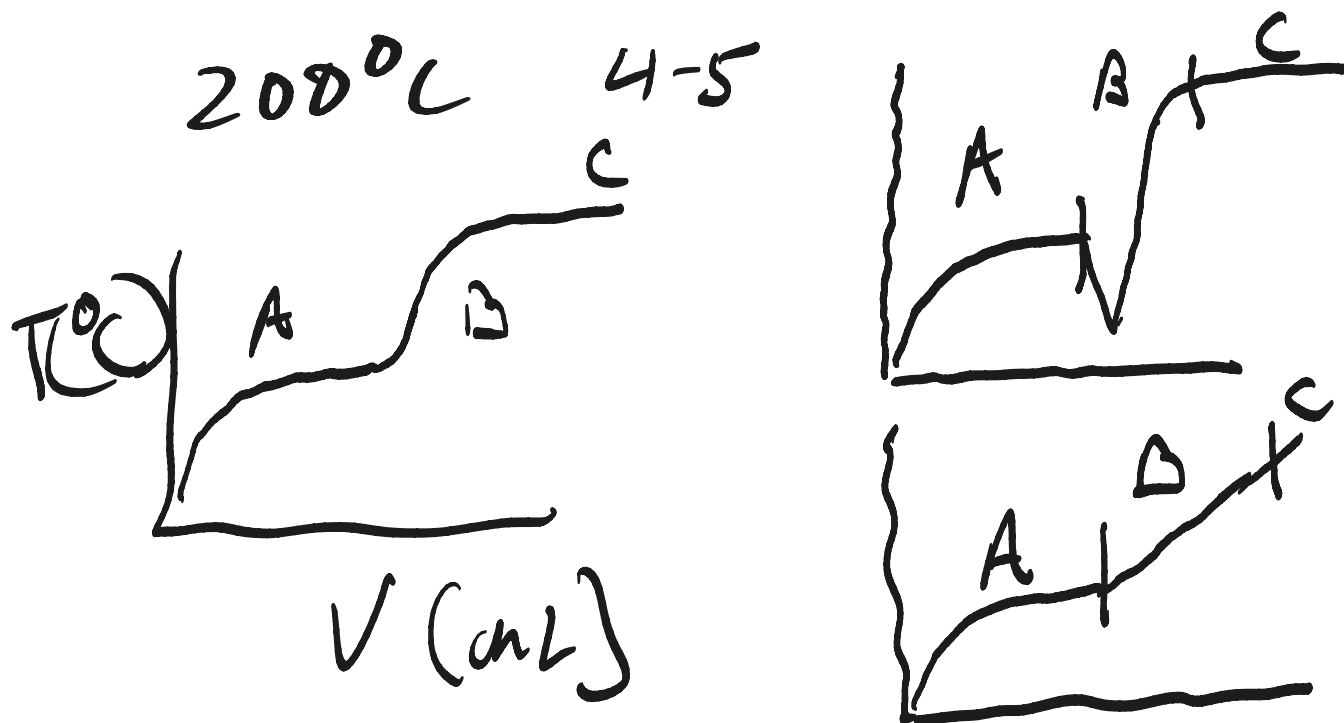
Fractional
Distillation
ratio?

15ml

Acetone
Toluene







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

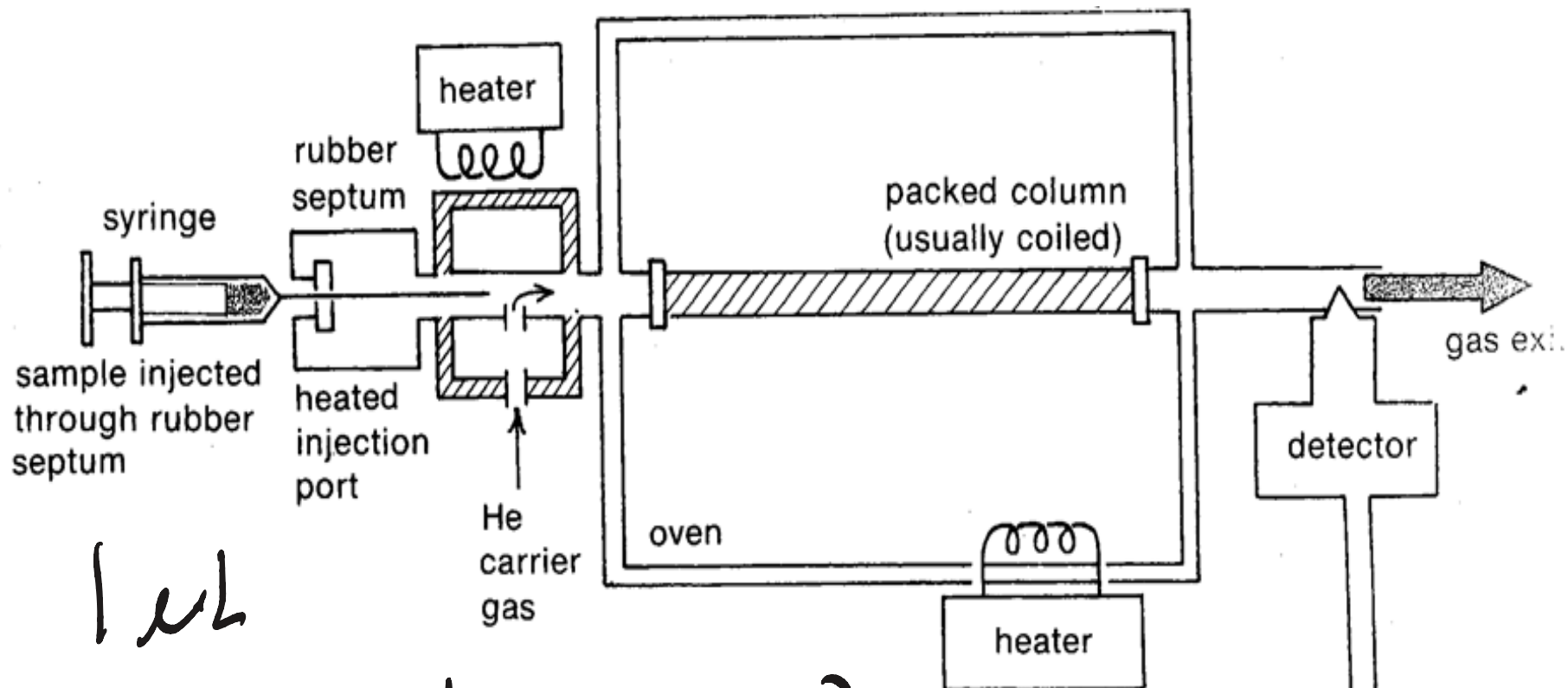
gas chromatography

Polar Stationary phase

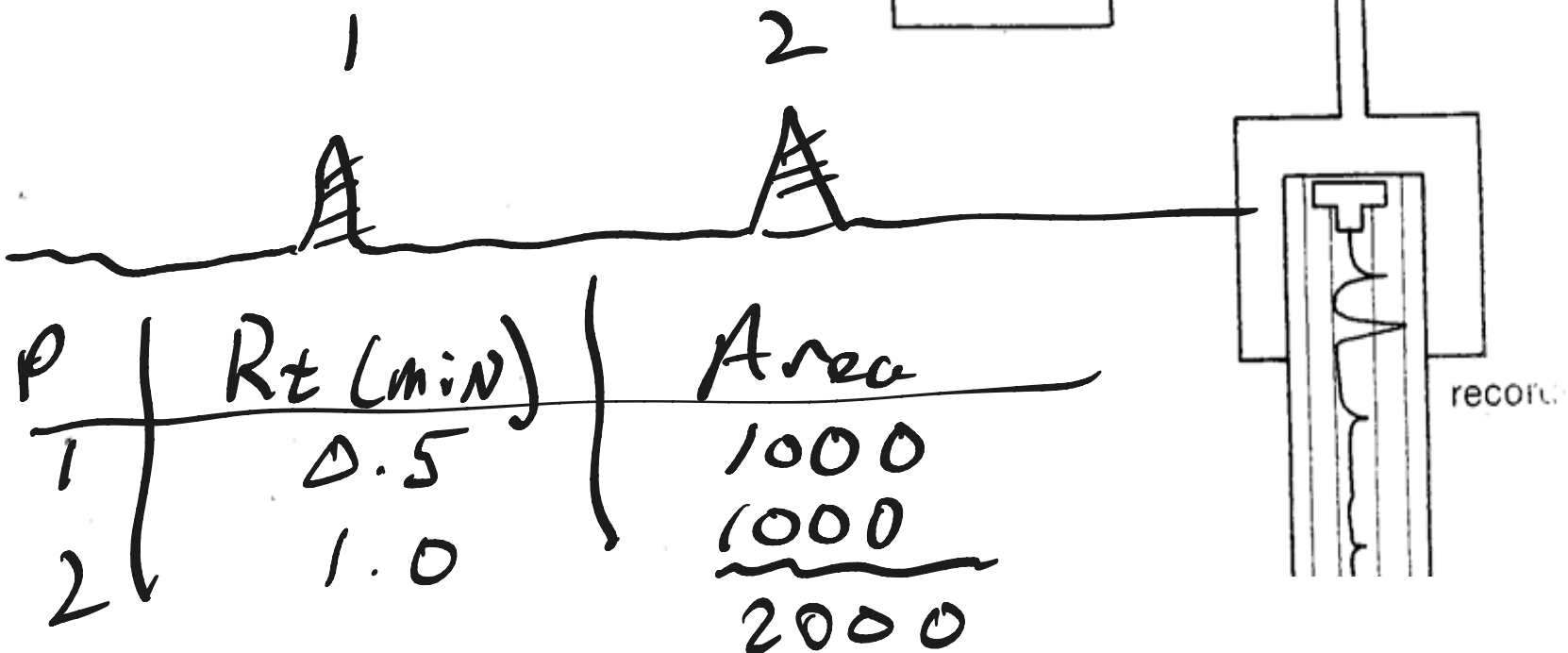
Non-Polar Mobile phase

B.P. order BP

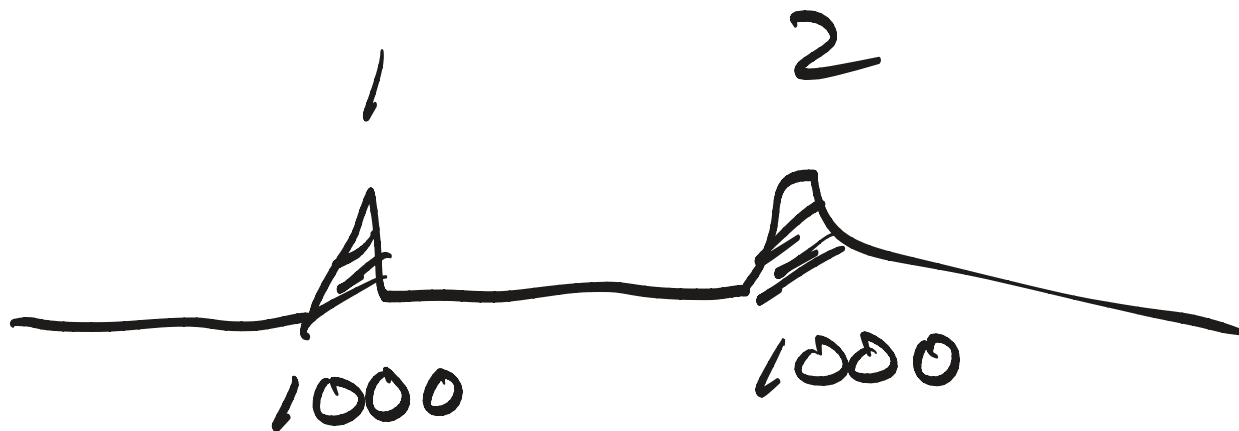
NP
A



1.2L



Total peak Area = 2000



$$\%A1 = \frac{1000}{2000} \times 100 = \% P.A.$$

F	Vol (mL)	GC %A/%T	Vol (mL)	
			A	T
A	5	90/10	4.5	1.5
B	5	50/50	2.5	2.5
C	5	0/100	0	5
			7.0/8.0	

$$\% A = \frac{7 \text{ mL}}{15 \text{ mL}} \times 100$$

$$\% T = \frac{8 \text{ mL}}{15 \text{ mL}} \times 100$$

Don't Discard
Fractions
even if TA says it's
OK.

