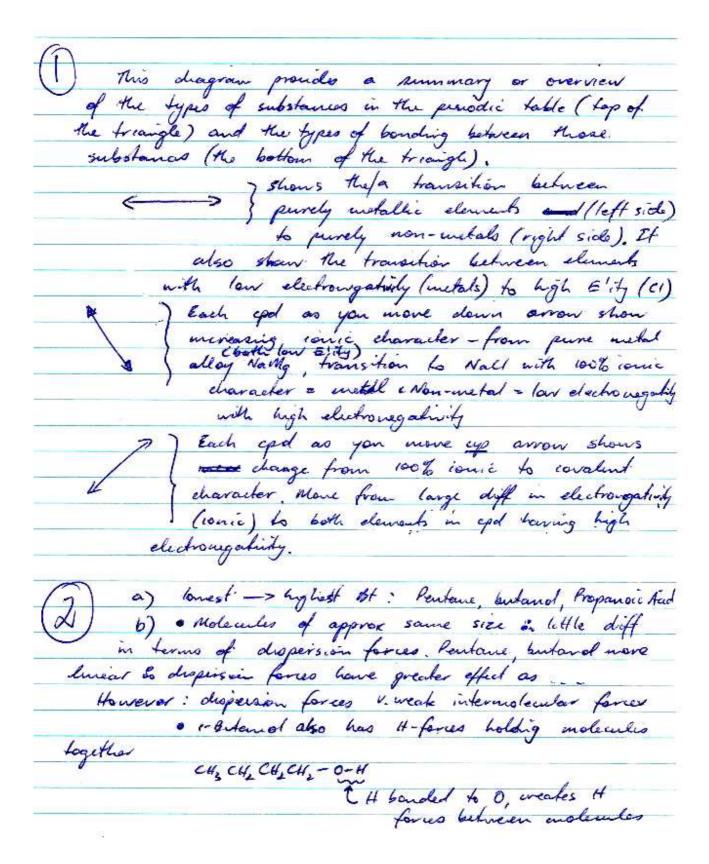
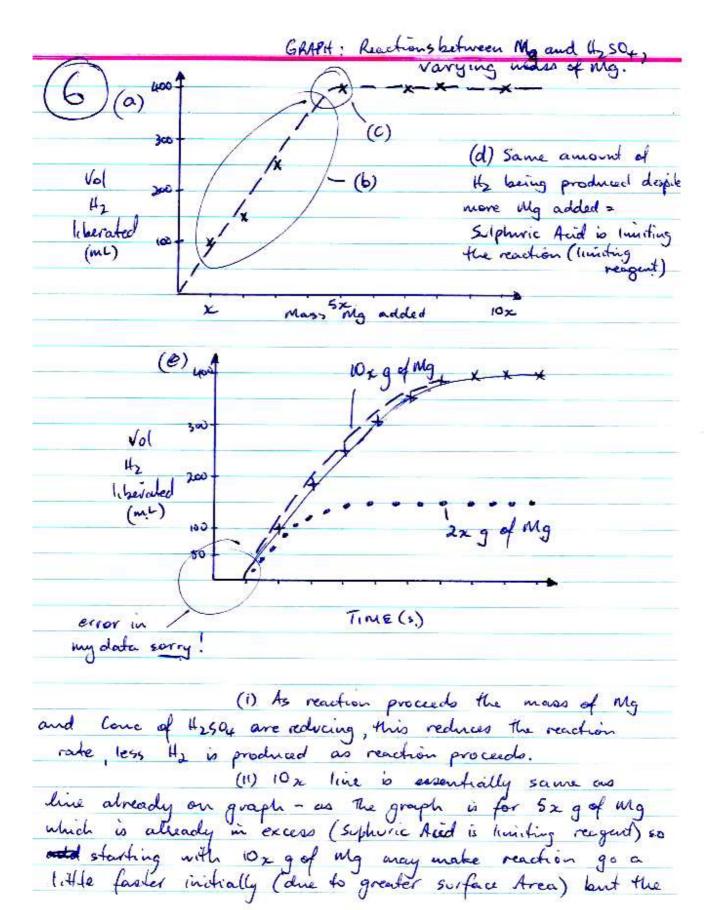
ANSWERS TO VERY IMPORTANT REVISION SHEET: These answers contain a limited amount of working and justification. They are intended for you to check the key points in your answers only. If these were the questions on the exam you should show more working than is demonstrated on these answer sheets.



It forces are the strongest intern	noteurlas fores
· Proparrow Acid has H forces (OH grow	up) and
abo has additional Depole - Depole forces con depole around C=0 bound CH, CH, C OH	realed by
dipole around c=0 bound	1 densels
C4 C4, C - polar	r molecule
06/	**
As l'enfance has only dropersion (mealest) As betand has disp + 4 forces - As Proponed has disp, 4 forces D-D forces -	
As between has disp + 4 forces -	and lovest B. pt
to Proposed has disp 4 forces D-D forces -	high B. pf.
	,
(3) 1 m Fe(Ng)2 solution: Fe(Ng)2 ap -	Fe = + 2NO 3 ag
so Conc of Fe in solution	w IM.
Dilition: 10 unl in 16 & [Fe13] = 0.01M	(GV = COVD)
Patient: needs 10 mg 1 = 11 = 0.000179 MM	K m m
N = M = 0.000179	MH
nene	y moles
Vol = n = 0.0179 conc Conc	- 4
Vol = n = 0.0179 conc Conc	moles moles mulate this
= 17.9 mL	
Curing + 2 ciago -> Culles	
(4) nace = m = 6.0525 mars	
mm -	
= 0-045 moles cace moles	-> moles
(1) na12 = 0.045 (N) ncr = 0.09	conc
	- 1
Conc (at used) = n 0.045 (conc (CT used) =	1 0.09
V 0. 4	v 0.4
= 0.1125 M	- 0.225 M
70 2 17 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

(1) Continued	(11) Continued
As initial come of Cutz	As initial come of CI
was Cp = 0.25 = 0.2	was co = 0.15 x 0.6
was Cp = 0.25 x 0.2	0.4
= 0.125 M	- 0.225
Cp - Cused	Co - Cusad
Cp - Cused = 0.0125 M Cu+2	= 0 conc of cl
-	CI is used completly in
	the exaction.
5 2CH3OH + 302 two starting pts. no	m_{M} $\frac{1}{2} = \frac{20}{20} = 0.8928$ $\frac{1}{24.4}$
901 N V 20	dd.4
C430H ! 02	
RN Ratio 2 : 3 RN mixture 0.3115: 0.8928	CU30H is limiting Reagent
сь П420 2 С420 2 ПС Ссири	40H = 4 0.3125 = 0.625
mars 420 = n x M	1M
= 11.25	



same amount of Hz product will be	made - the suphune
acid determines this as it is limited	ing reagent
for the 2x g of mg	line - there is
less Mg so the rake may be slightly	lower due to less
surface area but key diffund - at 2x	g of Mg it will be
the himiting reagent and less product in	Il be made . From
part (1) graph, the amount of 42 produ	ct made was 150mb
so this live reaches that max volve	ne.
(iii) Increasing the co	
it will no larger be the hiniting reage	ut the 5 x g of Mg
will be. Thus this line will each a	greater volume of
He product. It will also reach this quie	her as an increase
in conc will increase the clake of nea	cter
original le	lie
original le	io
1 xx	
17	
(7) Calculate theoretical yield.	
The state of the s	maso mase
ns,c/2 = M = 0.027	nucles -> molos
MM	moles -> molos
1 cc/4 = Ccc/4 × 1520/2 = 0.0135	
Mca = nxMM = 2.08'g	
4 4 (51 pg	- 4/
6 YIELD = 1.51 100 - 72.	.5 10
(8)	
(8) mass of C = 11.5g.	