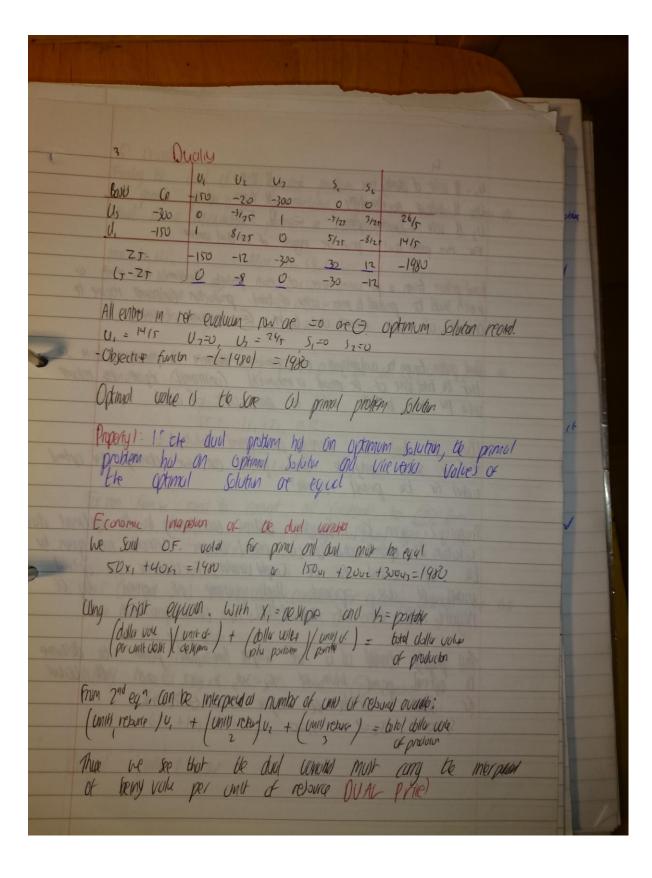
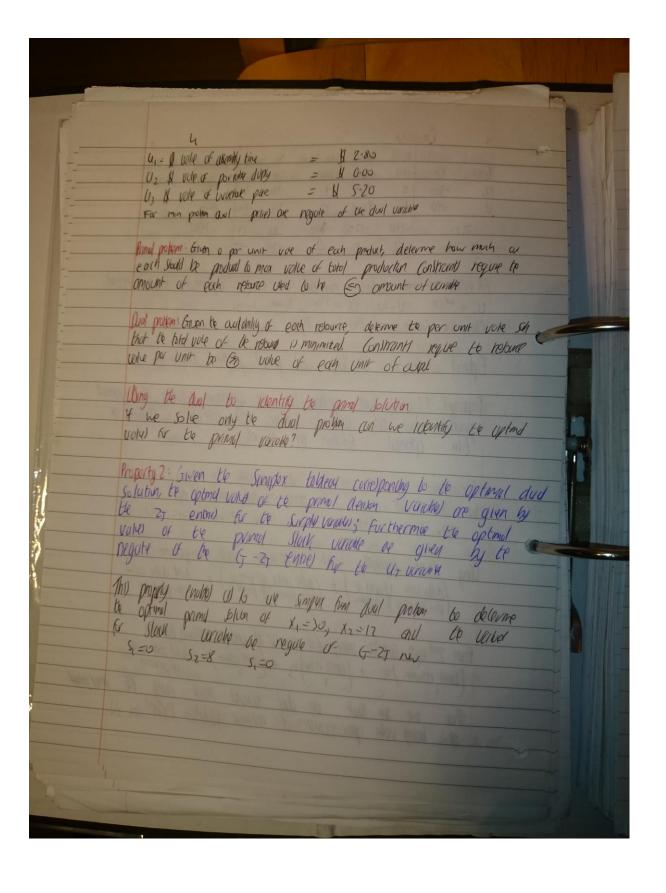
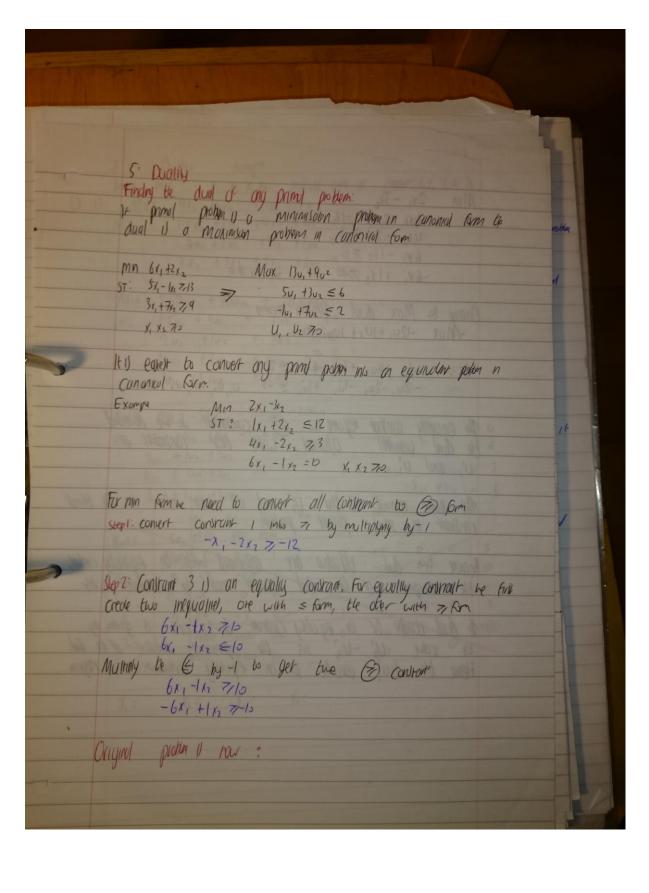
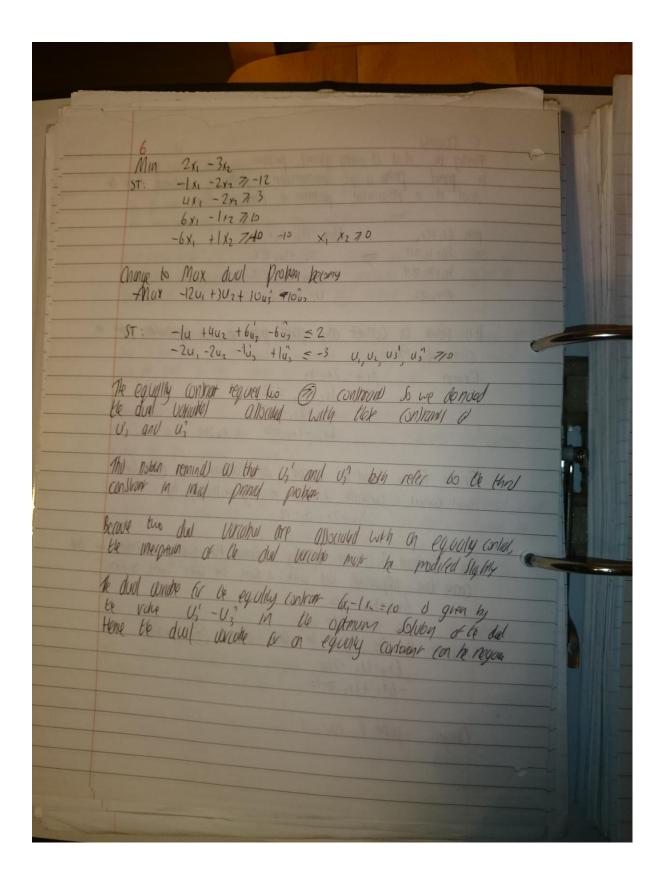
THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	
	a
Le DUALITY (simplex)	
Every LP not an associated LP culted the dual problem we refer to original problem as primal problem.	iltin
we solve dual prohim.	
Solution to elect the primal ar dual provide same order	
If one I harder to solve than the other, we plan the easier one.	
Hynlech examps Max 50x, +40x2	16
S.t: 3x1 +5x2 & 1500 Overhyte	
1×2520 portable diply	
8x, +5% = 300 WORKING X, X2710	
A moximulatin protein will all less than a equal to contraine and nonnegates	/
and problem is: Min 1500, + 2002 + 3003	
ST: 3u, +8u3 7/56	
5u, +luz +5uz 7/40 u, uz, uz, vz 70	
The can consid from Eur a minimization proban is a min problem with all contrant and non very RHJ.	
Thus the dual of a max problem in canonical form is a min	
problem in cononicul firm. U, Uz uz we refered to a dual warder	

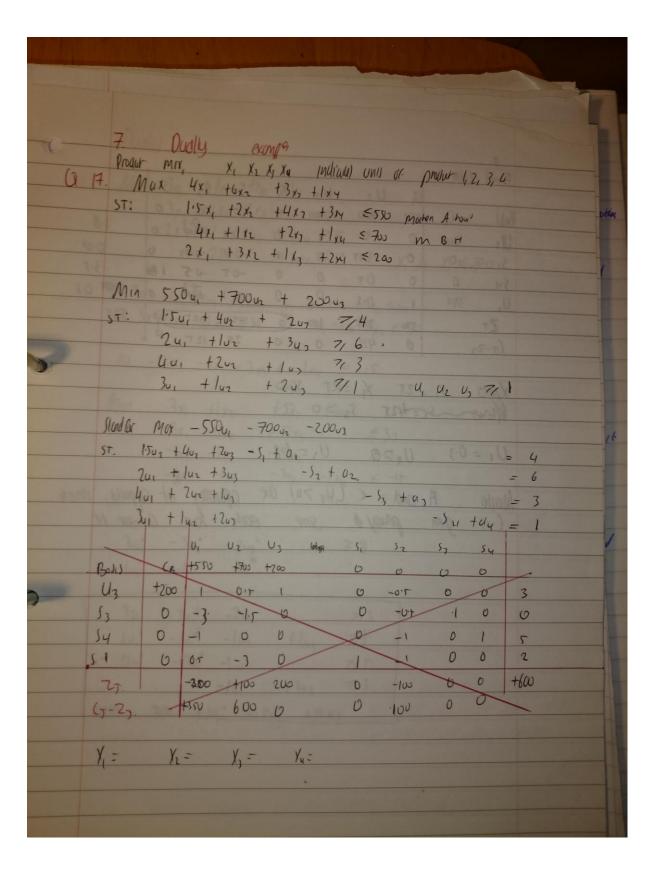
With the preceding example in mind we make the following general Stocney obot dout of a more propor in convical from 1 The dual of 0 min protein in controlled form.
2 when grimed has n clearly vorwheld (n=2 for hyptech), the dual will have in constraints. First constant of dual is associated with variable x, and 2rd With varioble X2 and So on 3 When the primal has m constraint (m-3 for highten), the dud will have in dealer variable. Dual variable is, asknowed with to first primal contraint, dud vorite us avoide with send constraint and to on is the next had sides of the parent contingent percone the object function confined in did 5 The objective forten aref of the prind before the MID at dual constraint 6 the contrast coeff of the its grand variety the prove the Coefficient in the we have fromted the high less dual liver a groups sole very simple. Her Subtracting Sugar variable & and in to obtain standard Form, adding attend whole of and or to open the tolker arm, and multiplying the o.f by -1 to convert the dual problem to on equivale mux progen, we are or witel cotras (R -150 -70 -300 -M -M -1 811 (J-27. -1508M - 20+M (3WH3M) -M 40 -90M Uz mo bas), a romand and second Iteration Uz Into but, a, at

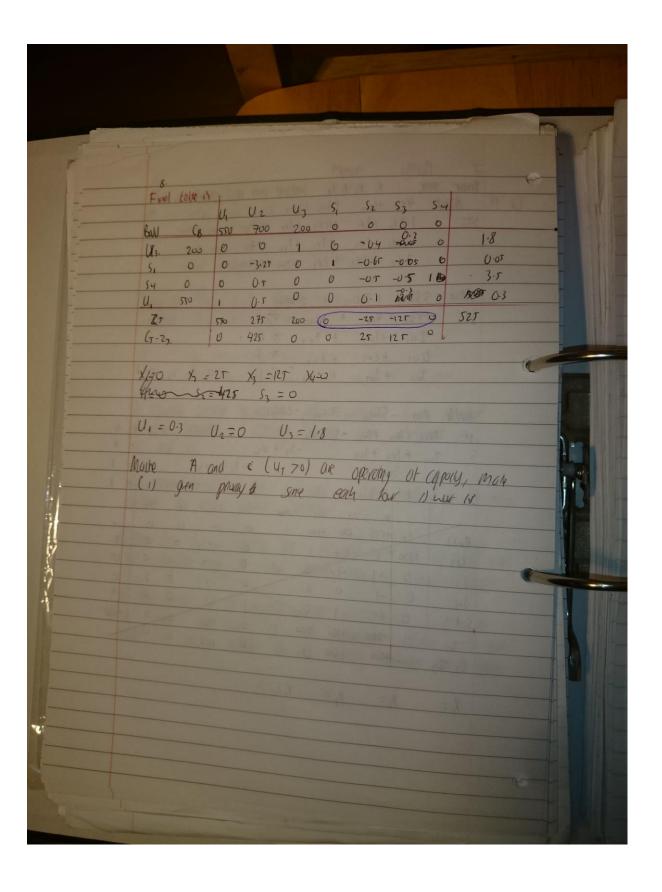












THE	
	Duoliy
Q [9	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	3x, +1x2 +12x3 = 30 (3x1+1x1+12x3 = 30) 3x, +1x2 +12x3 = 303x1 -1x1-12x3 = -30
*	Mod $3x_1 + 1x_2 + 5x_3 + 3x_4$ ST: $3x_1 + 1x_2 + 12x_3 = 30$ $-3x_1 - 1x_2 - 12x_3 = -3x_3$ $-3x_1 - 1x_2 - 3x_3 - 1x_4 = -1x_4$ $2x_2 + 3x_4 = 12$
	3u; -3u² -3u² ≥ 3
0	$30i - 30i^{2} - 20i $ $7/3$ $10i^{2} - 10i^{2} - 10i $ $+ 20i $ $7/1$ $120i^{2} - 12i^{2} - 30i $ $7/5$ $-14i + 1343 $ $7/3$ MM $300i^{2} + 300i^{2} - 150i + 1243$
-(-	