

2.) 4-27 from book:

	Wheat SE	Wheat N	Wheat NW	Wheat W	Wheat SW	Alfalfa SE	Alfalfa N	Alfalfa NW	Alfalfa W	Alfalfa SW	Barley SE	Barley N	Barley NW	Barley W	Barley SW			
Number of acres	2,000.00	200.00	-	-	-	-	-	165.52	-	-	0.00	880.00	91.43	28.57	-			
Profit	\$100	\$100	\$100	\$100	\$100	\$60	\$60	\$60	\$60	\$60	\$110	\$110	\$110	\$110	\$110	\$339,931.03		
Constraints:																		
SE acreage	1					1					1					2000.00	<=	2000
N acreage		1					1					1				1080.00	<=	2300
NW acreage			1					1					1			256.95	<=	600
W acreage				1					1					1		28.57	<=	1100
SW acreage					1					1					1	0.00	<=	500
Wheat acreage	1	1	1	1	1											2200.00	<=	2200
Alfalfa acreage						1	1	1	1	1						165.52	<=	1200
Barley acreage											1	1	1	1	1	1000.00	<=	1000
SE water	1.6					2.9					3.5					3200.00	<=	3200
N water		1.6					2.9					3.5				3400.00	<=	3400
NW water			1.6					2.9					3.5			800.00	<=	800
W water				1.6					2.9					3.5		100.00	<=	500
SW water					1.6					2.9					3.5	0.00	<=	600
Total water	1.6	1.6	1.6	1.6	1.6	2.9	2.9	2.9	2.9	2.9	3.5	3.5	3.5	3.5	3.5	7500.00	<=	7500
																LHS	Sign	RHS

Wheat 2,200.00
 Alfalfa 165.52
 Barley 1,000.00

Note: Your homework report must also include a written formulation, *i.e.* mathematical expressions corresponding to the constraints and objective as seen in the above table.

