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	Quiz # 2	
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a)	Optimal colution:	
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ng kananadasa ini manananan isranakan kananan isran	3x1 + 2x2 < = 18	
	$x_1 + x_3 < = 4$	and the state of t
	+2x3 < -6	
***		
	x1, x2, x3 > = 0	And the second s
	Solution:	
	2 = 3x1 + 5x2 + 3x3	
	3x1 + 2x2 + S1 = 18	
	x1 + x3 + 0.51 + 52 = 4	
	x2 + 2x3+0.S1 +0.S2 +S3 = 6	
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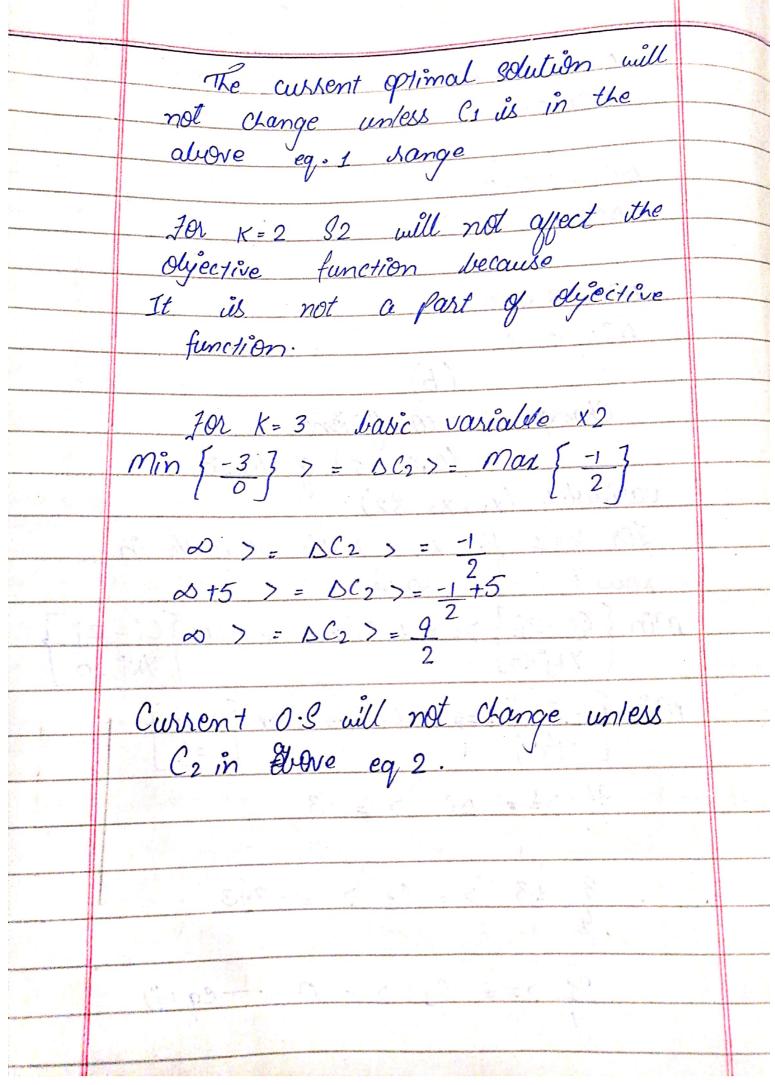
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Change in Cj Here, C= (C1, C2, C3, C4, C5, C6) Cost co-efficients associated with basic variable x1, x2, S2 are  $C\beta = (C_1, C_2, C_5) = (3, 5, 0)$ Change in co-efficient Cj (C3, C4, C6) of non-basic variable x3, S1, S3 N3, DC4, DC6, New Objective function will become  $C_3' = C_3 + DC_3$ C3 = 3 => C3' = 3 + DC3 Cy = Cy + DCyC4 = 0 => C4 = 0+ DC4 => DC4 C6 = C6 + DC6 C6 = 0 => C6 = 0+ DC6 = DC6 New values of DC3 + (C3 - Z3) => DC3-3 DC4 + (C4-Z4) => DC4-1 DC6 + (C6-Z6) => DC6-3 In order to maintain optimal

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variables (x, x2, S2)	tanadan daga sa
10r K=1 for x1 basic variable in	
For K=1 for x1 basic variable in Row 1, we have	
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