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@ R3 - 3 R2 or R3 (new) R3 (old) 3 R (new) x_1 x_2 x_3 x_3 x_4 x_5 $m_{\text{ehigh}} = 3(\frac{1}{2}) = 3(1) = 3(0) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(0) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) = 3(1) =$ -3/4 1 $-4-(-\frac{3}{3})$ -8-3=<u>5</u> Zi Calculation $x_1 = 3 \times \frac{5}{2} + 3 \times (\frac{1}{2}) + 0 \times (\frac{-5}{2}) = 3 \times \frac{1}{3} - \frac{3}{3}$ $x_2 = 0x0 + 3x1 + 0x0 = 3$ 27 0 XZ + 8 XO+ 6X8= 0 51 - 0x1 + 3x0 + 0x0 = 052 9 0x 1 + 3x 1 + 0x -3 -5370000+300+001=036/mb - 0 × 10 + 3 × 3 + 0 × 1 - 9 In the above tuble all the values of cj-Zj are not less than or equal to zero : optimality hot reached.

The variable of is entening variable of st is Leaving variable Coosesponding key element is 5/2 In next Iteration 5, is seplaced by I second Iteration. x1 x2 x3 S1 S2 S3 CBI 0 4/5 2/5 1/0 0 4 1 2/5 1/5 3/10 0 x2 0 3 0 0 10 1-1/21 3 2/5 1/5 4/5 0 11 Cj-Zj 0 0 -12/5 -1/5 - 9/50 1 R1 - 5 R1 * 2 G RICHEW) R1(old) 5 5/2 = 2×2 1 1/9= 0×2 10×2 =1 0 4/5 2/5 /10 0 AN-

2
$$R_2 \rightarrow R_2 + \frac{1}{2} R_1^{-1} \approx R_2(R_{ew}) R_2(A_1 d_1) = R_1(R_{ew})$$

(1) $x_1 \rightarrow -\frac{1}{2} + \frac{1}{2}(1) = 0$

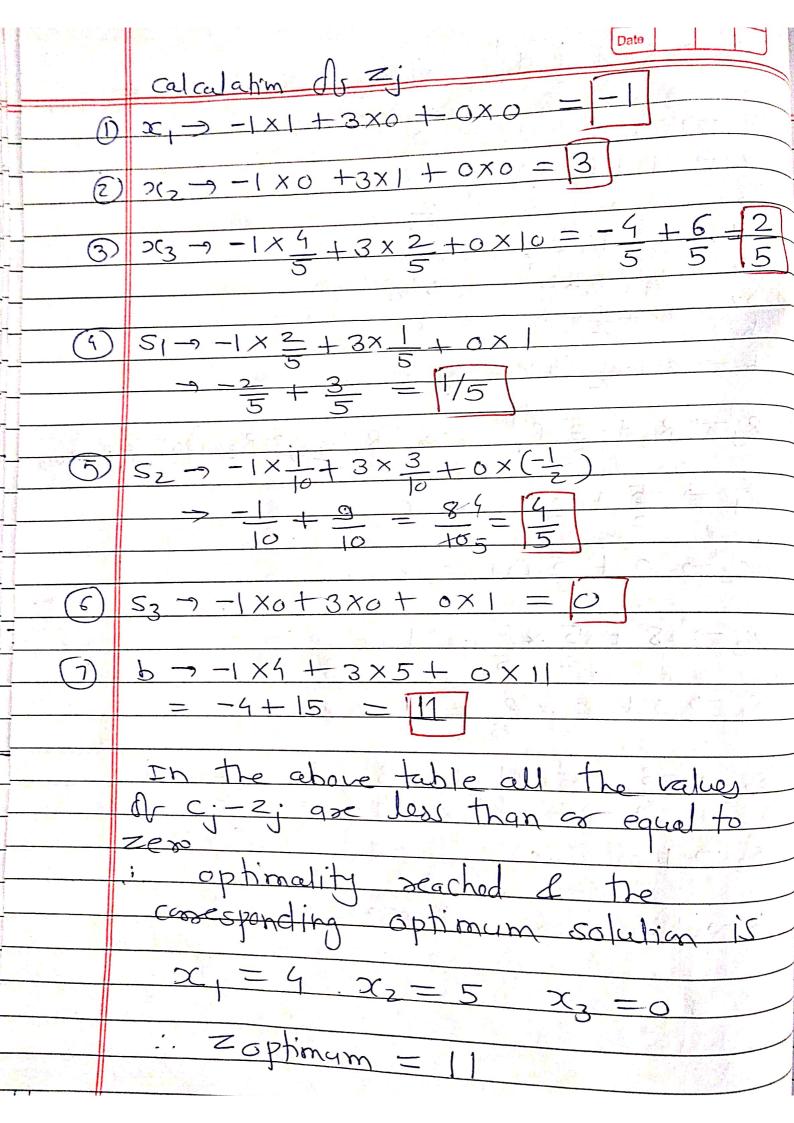
(2) $x_2 \rightarrow 1 + \frac{1}{2}(0) = 1$
 $x_3 \rightarrow 0 + \frac{1}{2} \times \frac{4}{5} = \frac{2}{5}$
 $x_5 \rightarrow 14 + \frac{1}{12} \times \frac{1}{10} = 3110$
 $x_5 \rightarrow 14 + \frac{1}{12} \times \frac{1}{10} = 3110$
 $x_5 \rightarrow 14 + \frac{1}{12} \times \frac{1}{10} = 3110$
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 $x_5 \rightarrow 14 + \frac{1}{2} \times \frac{1}{10} = 3110$

(a) $x_5 \rightarrow 14 + \frac{1}{2} \times \frac{1}{10} = 3110$

(b) $x_5 \rightarrow 14 + \frac{1}{2} \times \frac{1}{10} = 3110$

(c) $x_5 \rightarrow 14 + \frac{1}{2} \times \frac{1}{10} = 3110$

(d) $x_1 \rightarrow x_5 \rightarrow x_5$



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$$MAX Z = -x_1 + 3x_2 - 2x_3$$

$$= -4 + 3 \times 5 - 2 \times 0$$

$$\min \ Z = x_1 - 3x_2 + 2x_3$$

$$= 4 - 3x_5 + 2x_0$$