(9 Marks)

5.) Minimize
$$C=20x_1+60x_2+10x_3$$



Subject to the conditions:

$$\begin{vmatrix} x_1 + 2x_2 + 3x_3 \ge 4 \\ x_1 + x_2 + x_3 \ge 8 \\ x_1, x_2, x_3 \ge 0 \end{vmatrix}$$

 $x_1 + x_2 + 2x_3 \ge 6$