

$$\therefore y = \frac{\begin{vmatrix} -6 & 120 & 5 \\ 9 & 100 & -6 \\ -20 & 200 & 70 \end{vmatrix}}{|A|}$$

$$= \frac{-6(7000 + 1200) - 120(630 - 120) + 5(1800 + 2000)}{-4264}$$

$$= \frac{-91400}{-4264}$$

$$= 21.435$$

$$\therefore z = \frac{\begin{vmatrix} -6 & 7 & 120 \\ 9 & 2 & 100 \\ -20 & -6 & 200 \end{vmatrix}}{|A|}$$

$$= \frac{-6(400 + 600) - 7(1800 + 2000) + 120(-54 + 40)}{-4264}$$

$$= \frac{-34280}{-4264}$$

$$= 8.039$$

$$\therefore \left. \begin{array}{l} x = 11.707 \\ y = 21.435 \\ z = 8.039 \end{array} \right\} \underline{\text{Ans}}$$