



Construct a 2×3 matrix, whose elements are given by $a_{ij} = \frac{(i+2j)}{3}$.

Solution :

$$a_{ij} = \frac{(i+2j)}{3}$$

$$a_{11} = 1 \qquad a_{12} = \frac{5}{3} \qquad a_{13} = \frac{7}{3}$$

$$a_{21} = \frac{4}{3} \qquad a_{22} = 2 \qquad a_{23} = \frac{8}{3}$$

$$A = \begin{pmatrix} 1 & \frac{5}{3} & \frac{7}{3} \\ \frac{4}{3} & 2 & \frac{8}{3} \end{pmatrix}$$