EE25BTECH11020 - Darsh Pankaj Gajare

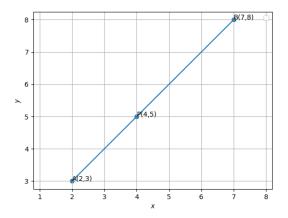
Question:

Find the ratio in which P(4,5) divides the line segment joining A(2,3) and B(7,8). Solution: Using Section Formula,

$$\mathbf{P} = \frac{k\mathbf{B} + \mathbf{A}}{k+1} \tag{1}$$

$$3k \begin{pmatrix} 1 \\ 1 \end{pmatrix} = 2 \begin{pmatrix} 1 \\ 1 \end{pmatrix} \tag{3}$$

$$or, k = \frac{2}{3} \tag{4}$$



1