

$$\begin{aligned}
 &\Rightarrow 6k^2 - 15k + 6 = 0 && \text{[by factorisation method]} \\
 &\Rightarrow 2k^2 - 5k + 2 = 0 && \text{[divide by 3]} \\
 &\Rightarrow 2k^2 - 4k - k + 2 = 0 \\
 &\Rightarrow 2k(k-2) - 1(k-2) = 0 \\
 &\Rightarrow (k-2)(2k-1) = 0 \\
 &\text{If } k-2 = 0, \text{ then } k = 2 \\
 &\text{If } 2k-1 = 0, \text{ then } k = \frac{1}{2} \\
 &\therefore k = 2, \frac{1}{2} \\
 &\text{Hence, the required values of } k \text{ are } 2 \text{ and } \frac{1}{2}.
 \end{aligned}$$

Q. 20 Find the ratio in which the line $2x + 3y - 5 = 0$ divides the line segment joining the points $(8, -9)$ and $(2, 1)$. Also, find the coordinates of the point of division.

● **Thinking Process**

(i) Firstly, consider the given line divides the line segment AB in the ratio $\lambda : 1$.

Then, coordinate of P be $\left(\frac{\lambda x_2 + x_1}{\lambda + 1}, \frac{\lambda y_2 + y_1}{\lambda + 1} \right)$.

(ii) Substitute the coordinate in the given equation of line and get the value of λ .

(iii) Further, substitute the value of λ in Point P .

Sol. Let the line $2x + 3y - 5 = 0$ divides the line segment joining the points $A(8, -9)$ and $B(2, 1)$ in the ratio $\lambda : 1$ at point P .

$$\begin{aligned}
 \therefore \text{Coordinates of } P &= \left\{ \frac{2\lambda + 8}{\lambda + 1}, \frac{\lambda - 9}{\lambda + 1} \right\} \\
 \left[\because \text{internal division} &= \left\{ \frac{m_1 x_2 + m_2 x_1}{m_1 + m_2}, \frac{m_1 y_2 + m_2 y_1}{m_1 + m_2} \right\} \right]
 \end{aligned}$$

But P lies on $2x + 3y - 5 = 0$.

$$\therefore 2 \left(\frac{2\lambda + 8}{\lambda + 1} \right) + 3 \left(\frac{\lambda - 9}{\lambda + 1} \right) - 5 = 0$$

$$\Rightarrow 2(2\lambda + 8) + 3(\lambda - 9) - 5(\lambda + 1) = 0$$

$$\Rightarrow 4\lambda + 16 + 3\lambda - 27 - 5\lambda - 5 = 0$$

$$\Rightarrow 2\lambda - 16 = 0$$

$$\Rightarrow \lambda = 8 \Rightarrow \lambda : 1 = 8 : 1$$

So, the point P divides the line in the ratio $8 : 1$.

$$\begin{aligned}
 \therefore \text{Point of division } P &= \left\{ \frac{2(8) + 8}{8 + 1}, \frac{8 - 9}{8 + 1} \right\} \\
 &= \left(\frac{16 + 8}{9}, -\frac{1}{9} \right) \\
 &= \left(\frac{24}{9}, -\frac{1}{9} \right) = \left(\frac{8}{3}, -\frac{1}{9} \right)
 \end{aligned}$$

Hence, the required point of division is $\left(\frac{8}{3}, -\frac{1}{9} \right)$.

14 Maths Exemplar Grade12 March Caps

SA Dillow



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