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Computer Science

MAI 102

Answer

$$\text{Co-ordinate} = \left(\frac{mx_2 - nx_1}{m-n}, \frac{my_2 - ny_1}{m-n} \right)$$

In here m & n is the ratio $m:n$

$$\therefore m=3, n=1, x_1=5, y_1=3, x_2=5, y_2=-7$$

$$\text{Co-ordinate} = \frac{3(5) - 1(5)}{3-1}, \frac{3(-7) - 1(3)}{3-1}$$

$$= \frac{45 - 5}{2}, \frac{-21 - 3}{2}$$

$$= \frac{40}{2}, \frac{-24}{2}$$

$$= 20, -12$$

$$\therefore \underline{\underline{(20, -12)}}$$