

termination of maximum and point of inflexion of a function.

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19/10/2010.

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So Assignment.

Q1) If A and B are the points (3, 5) and (15, -7)

respectively, find the coordinates of the point which divides AB externally in the ratio 3:1

Sols.

For external division $\left(\frac{mx_2 - nx_1}{m-n}, \frac{my_2 - ny_1}{m-n} \right)$

Let the point be P(x, y)

with ratio 3:1

$x = \frac{3(15) - 1(3)}{3-1} = \frac{45-3}{2} = \frac{42}{2} = 21$

$y = \frac{3(-7) - 1(5)}{3-1} = \frac{-21-5}{2} = \frac{-26}{2} = -13$

$\Rightarrow P(21, -13)$