## 1

## Assignment-2

## AI24BTECH11026- pendem nitesh sri satya

## I. Intersection of Conics(CBSE)

Question: find the coordinates of the point which divides the line segment joining the points (4, -3)

and (8,5) in the ratio 3:1 internally

Solution: using section formula, the desired point is

$$\frac{1}{3+1} \left( \begin{pmatrix} 4 \\ -3 \end{pmatrix} + 3 \begin{pmatrix} 8 \\ 5 \end{pmatrix} \right) = \begin{pmatrix} 7 \\ 3 \end{pmatrix} \tag{1}$$

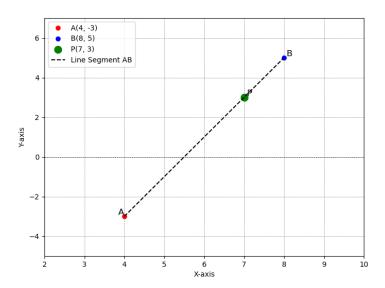


Fig. 1. Stem Plot of y(n)

Parameter	value
A	(4, -3)
В	(8, 5)
P	(7, 3)
Table 1	

PARAMETERS USED