

9 In this question you must show detailed reasoning.

The curve  $xy + y^2 = 8$  is shown in Fig. 9.

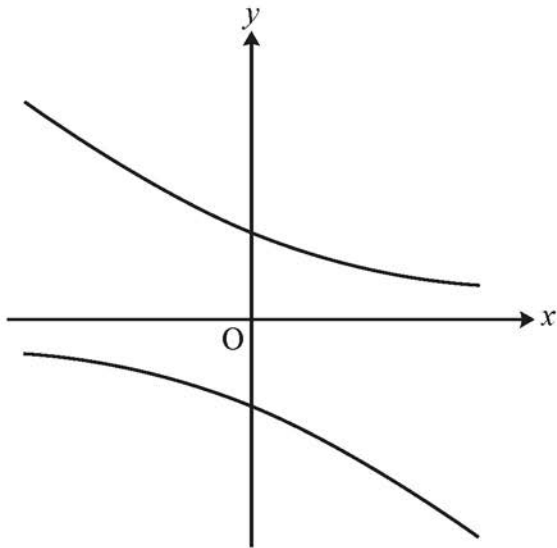


Fig. 9

Find the coordinates of the points on the curve at which the normal has gradient 2.

[6]