

7.

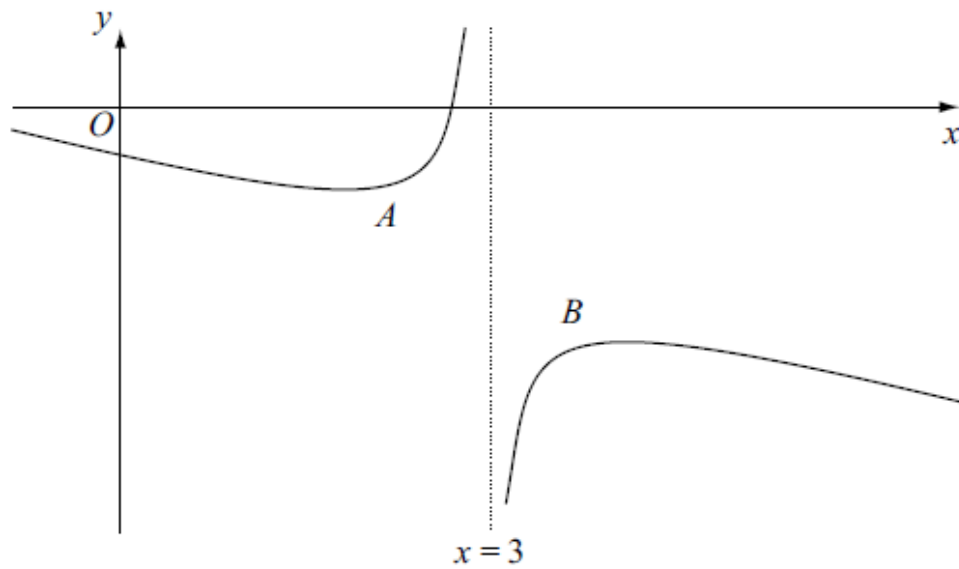


Figure 4

(a) Figure 4 shows a sketch of the curve with equation $y = f(x)$, where

$$f(x) = \frac{x^2 - 5}{3 - x}, \quad x \in \mathbb{R}, x \neq 3$$

The curve has a minimum at the point A , with x -coordinate α , and a maximum at the point B , with x -coordinate β .

Find the value of α , the value of β and the y -coordinates of the points A and B .

(5)