3

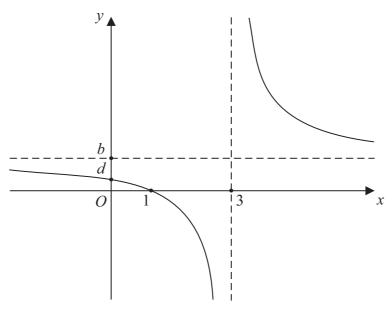


Figure 1

Figure 1 shows a sketch of the curve with equation $y = 1 + \frac{c}{x+a}$, where a and c are integers.

The equations of the asymptotes to the curve are x = 3 and y = b.

(a) Find the value of a and the value of b.

(2)

The curve crosses the x-axis at (1, 0) and the y-axis at (0, d).

(b) Find the value of c and the value of d.

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Question 3 continued		
	(Total for Question 3 is 6 marks)	

