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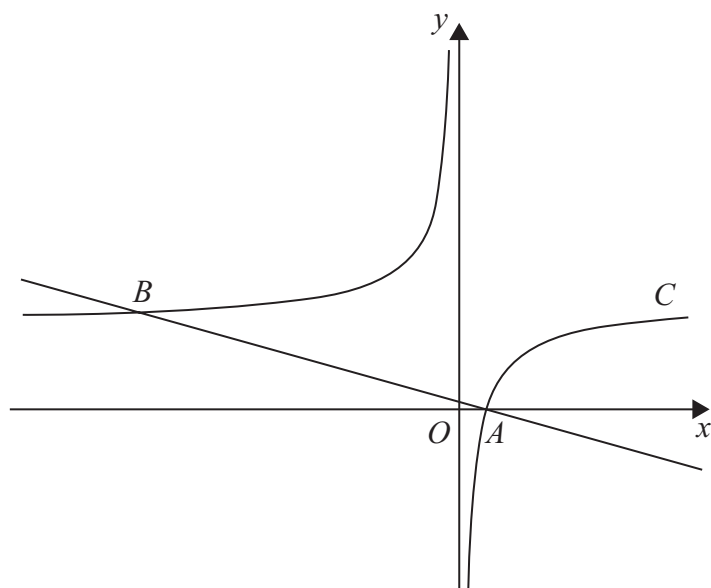


Figure 2

Figure 2 shows a sketch of the curve  $C$  with equation

$$y = 2 - \frac{1}{x}, \quad x \neq 0$$

The curve crosses the  $x$ -axis at the point  $A$ .

(a) Find the coordinates of  $A$ . (1)

(b) Show that the equation of the normal to  $C$  at  $A$  can be written as

$$2x + 8y - 1 = 0 \quad (6)$$

The normal to  $C$  at  $A$  meets  $C$  again at the point  $B$ , as shown in Figure 2.

(c) Find the coordinates of  $B$ . (4)

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