

1. Simplify $(3 + \sqrt{5})(3 - \sqrt{5})$.

(2)

Q1

(Total 2 marks)



5.

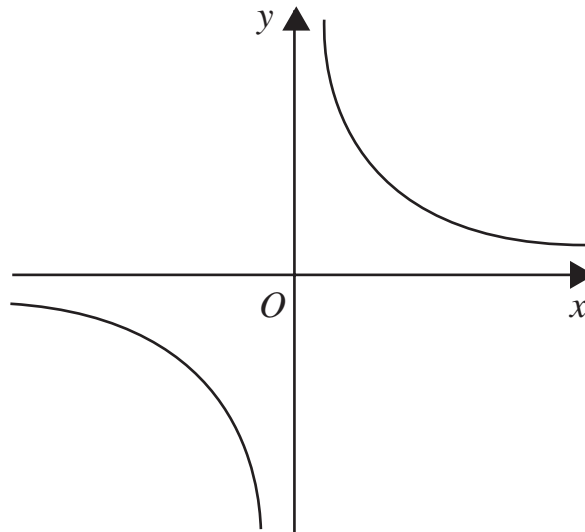
**Figure 1**

Figure 1 shows a sketch of the curve with equation $y = \frac{3}{x}$, $x \neq 0$.

- (a) On a separate diagram, sketch the curve with equation $y = \frac{3}{x+2}$, $x \neq -2$,
showing the coordinates of any point at which the curve crosses a coordinate axis. (3)
- (b) Write down the equations of the asymptotes of the curve in part (a). (2)



