9	A curve C has equation $y = \frac{3x+1}{2x+3}$	$x \neq -\frac{3}{2}$
	(a) Write down an equation of the asyn	nptote of $C$ which is parallel to

- (i) the review
  - (i) the x-axis,

(ii) the y-axis.

(2)

- (b) Find the coordinates of the points where C crosses
  - (i) the x-axis,
  - (ii) the y-axis.

(2)

(c) Using the axes opposite, sketch the curve C, showing clearly the asymptotes and the coordinates of the points where C crosses the axes.

(3)

The curve C intersects the x-axis at the point A.

The line l is the normal to C at A.

(d) Find an equation for l.

(5)

The line l meets C again at the point B.

(e) Find the x-coordinate of B.

(5)

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26



Question 9 continued								
<i>y</i>								
O $x$								



Question 9 continued

Question 9 continued							
	(Total for Question 9 is 17 marks)						

