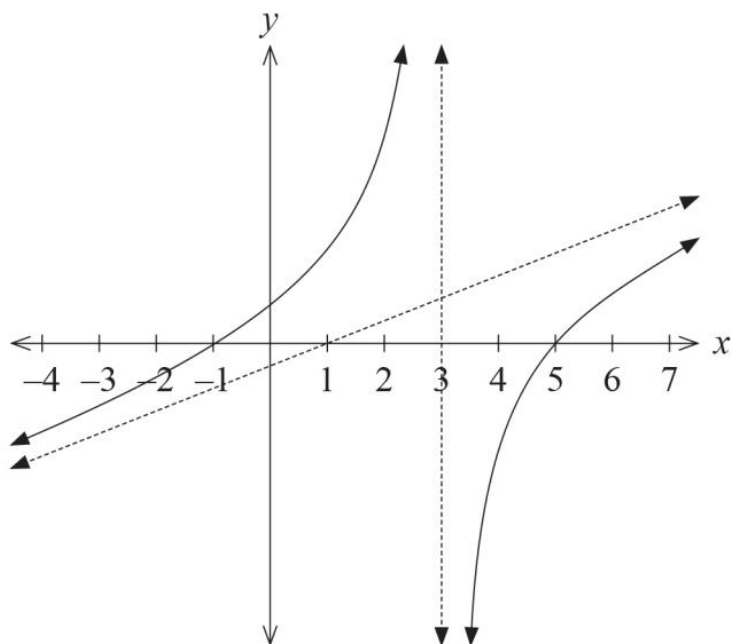


Question 5**(5 marks)**

The graph of function $f(x) = \frac{(x+a)(x-b)}{2(x-c)}$ is shown below. The constants a , b and c are positive.



- (a) Determine the values for a , b and c . Justify your answer for c . (3 marks)

The inclined asymptote for the graph of $y = f(x)$ is shown.

- (b) Determine the equation for the inclined asymptote. (2 marks)