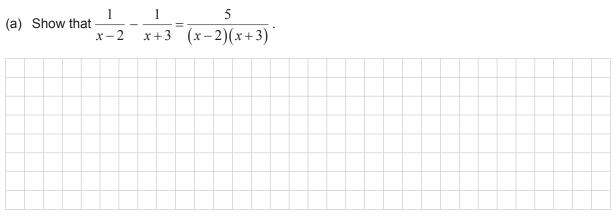
## QUESTION 8 (10 marks)



(1 mark)

Let 
$$f(x) = \frac{5}{(x-2)(x+3)}$$
.

## (b) (i) Draw the graph of y = f(x) on the axes in Figure 5.

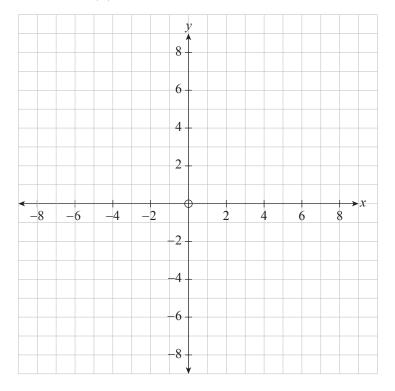


Figure 5

(3 marks)

(ii) Draw the graph of y = |f(x)| on the axes in Figure 6.

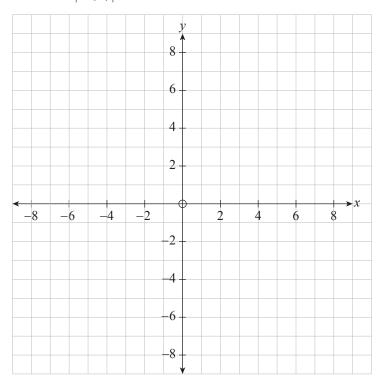


Figure 6

(1 mark)

(iii) Draw the graph of y = |f(x)| - f(x) on the axes in Figure 7.

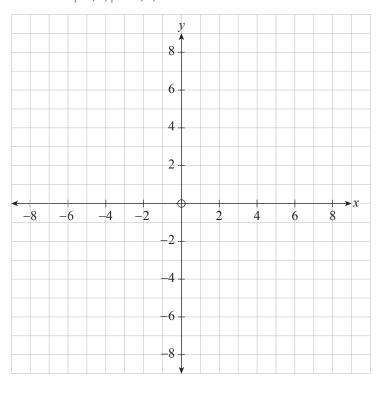


Figure 7

(c) Find the exact area between the graph of y = |f(x)| - f(x), the *x*-axis, and the lines x = -2 and x = 1.

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 	_					 					 				 

(3 marks)