

# Solomon Practice Paper

## Further Pure Mathematics 1E

Time allowed: 90 minutes

Centre: [www.CasperYC.club](http://www.CasperYC.club)

Name:

Teacher:

Question	Points	Score
1	7	
2	7	
3	9	
4	10	
5	12	
6	13	
7	17	
Total:	75	

How I can achieve better:

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5. (a) Find, in terms of  $a$  and  $b$ , the equations of the asymptotes to the curve with equation [3]

$$y = \frac{ax - 1}{x + b},$$

where  $a$  and  $b$  are positive constants.

- (b) Sketch the curve [3]

$$y = \frac{ax - 1}{x + b},$$

showing the coordinates of any points of intersection with the coordinate axes.

- (c) Hence, or otherwise, find the set of values of  $x$  for which [6]

$$\left| \frac{3x - 1}{x + 2} \right| < 2.$$

Total: 12





