

# Solomon Practice Paper

## Pure Mathematics 1F

Time allowed: 90 minutes

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

Name:

Teacher:

Question	Points	Score
1	5	
2	6	
3	6	
4	9	
5	11	
6	12	
7	12	
8	14	
Total:	75	

How I can achieve better:

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Last updated: December 24, 2025











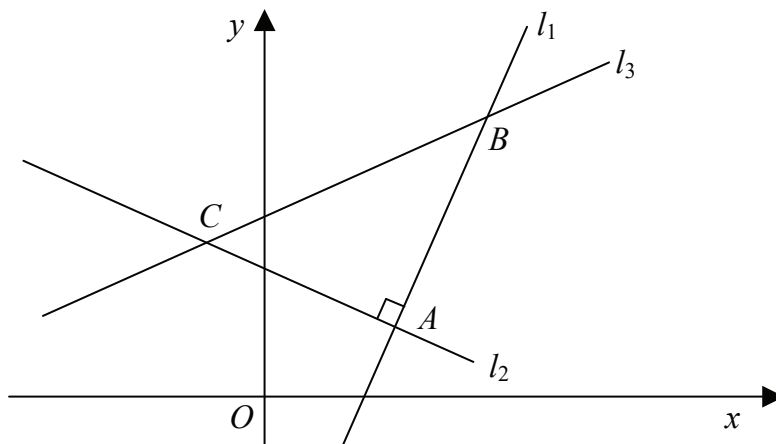








8. Figure shows the lines  $l_1, l_2$  and  $l_3$ .



Line  $l_1$  passes through the points  $A(5, 2)$  and  $B(7, 8)$ .

(a) Find an equation of the line  $l_1$ . [3]

Line  $l_2$  is perpendicular to line  $l_1$  and also passes through the point  $A$ .

(b) Find an equation of the line  $l_2$ . [3]

Line  $l_3$  has equation  $x - 2y + 9 = 0$  and intersects line  $l_1$  at  $B$  and line  $l_2$  at the point  $C$ .

(c) Find the coordinates of the point  $C$ . [4]

(d) Prove that triangle  $ABC$  is isosceles. [4]

Total: 14

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