

Solomon Practice Paper

Core Mathematics 4H

Time allowed: 90 minutes

Centre: www.CasperYC.club

Name:

Teacher:

Question	Points	Score
1	5	
2	6	
3	8	
4	8	
5	8	
6	10	
7	14	
8	16	
Total:	75	

How I can achieve better:

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3. (a) Express

$$\frac{x + 11}{(x + 4)(x - 3)}$$

[3]

as a sum of partial fractions.

(b) Evaluate

$$\int_0^2 \frac{x + 11}{(x + 4)(x - 3)} dx,$$

[5]

giving your answer in the form $\ln(k)$, where k is an exact simplified fraction.

Total: 8



5. A curve has the equation

$$x^2 - 3xy - y^2 = 12.$$

(a) Find an expression for $\frac{dy}{dx}$ in terms of x and y . [5]

(b) Find an equation for the tangent to the curve at the point $(2, -2)$. [3]

Total: 8



