

Solomon Practice Paper

Core Mathematics 2E

Time allowed: 90 minutes

Centre: www.CasperYC.club

Name:

Teacher:

Question	Points	Score
1	4	
2	5	
3	6	
4	8	
5	9	
6	9	
7	10	
8	12	
9	12	
Total:	75	

How I can achieve better:

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4. The coefficient of x^2 in the binomial expansion of $(1 + kx)^7$, where k is a positive constant, is 525.

(a) Find the value of k . [3]

Using this value of k ,

(b) show that the coefficient of x^3 in the expansion is 4375, [2]

(c) find the first three terms in the expansion in ascending powers of x of [3]

$$(2 - x)(1 + kx)^7.$$

Total: 8



