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## IB Exams! Solutions

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Topic 1 Sequences, Series, Logs, Binomial  
Expansion Binomial theorem - Pascal's  
triangle - (IB Math, GCSE, A level, AP)  
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GCSE, A level, AP) Ib Math SL Binomial  
Expansion

[2019 Updated] IB Maths SL

Questionbank > The Binomial Theorem.

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Binomial Expansion - IB Exam  
Preparation - Studynova

This means the expansion equations is  $a^4 + 4a^3b + 6a^2b^2 + 4ab^3 + b^4$ . From the equation  $(2+x)^4$  we know that  $a = 2$ , and  $b = x$ . We can substitute those numbers into the expansion equation  $\rightarrow 2^4 + 4(2^3)x + 6(2^2)x^2 + 4(2)x^3 + x^4$ . After expanding the equation, simplify:  $\rightarrow 16 + 32x + 24x^2 + 8x^3 + x^4$ . Blog Option 2:

Elie Maths: IB Maths SL Blog: Binomial  
Expansion

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The Binomial Theorem (IB Maths SL) -  
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an Unknown Variable Given Partial Information About the Expansion 1. In the expansion  $(1 + kx)^n$  the second term is  $12x$  and third term is  $60x^2$ . Find the values of  $k$  and  $n$ . 2. The first two terms of the binomial expansion is given below. Find the values of  $a$  and  $b$ .  $(a + 5b)^5 = e \times 10e^4x + \dots$  [www.learntuition.sg](http://www.learntuition.sg)

IB Math SL Complete Revision Session 1  
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Logarithm (log) past paper questions for  
IB Standard Level and Additional Maths  
... Andrew Chambers 5,256 views. 13:25

IB MATH SL/HL How to ACE IB  
Binomial Expansion in 10 MINS! 1 ...

[IB Math SL] Exam Review: Binomial  
Theorem

1. In the expansion of  $(a + 3b)^n$ , the sum of  
9th and 10th term is zero. Find the value  
of  $a/b$  in terms of  $n$ . 2. If the coefficient of

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4<sup>th</sup>, 5<sup>th</sup> and 6<sup>th</sup> terms in the expansion of  $(1+x)^n$  are in arithmetic sequence, then find the value(s) of  $n$ .  
3. If the last term in the expansion of  $(3 - 1/3x)^n$  is  $2/81$ , find the value of  $n$ .

Binomial Theorem - Practice Questions - IBDP Math HL/SL  
[2019 Updated] IB Maths HL  
Questionbank > Binomial Theorem.  
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IB Maths HL Questionbank - Binomial Theorem

The Binomial Theorem is used for expanding brackets in the form  $(a + b)^n$ .  
Questions on this topic are usually short ones: you usually only have to find one  
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StudyIB Maths: Analysis & Approaches:  
Binomial Theorem SL

Here you will find support materials for Chapter 7 of the Cambridge IB Mathematics Standard Level for the IB Diploma Coursebook: 'Binomial expansion'. This resource contains self-assessment worksheets (with answers), which allow students to consolidate their learning in the classroom or as homework.

Cambridge IB Maths SL 7: Binomial expansion-Assess ...

Answers to Pascal's Triangle and Binomial Expansion

- 1) The dot next to the choice indicates that it is the answer.
- 2) 10
- 3)  $32$
- 4)  $60$
- 5)  $u^4v^2$
- 6)  $x^4 + 12x^3 + 54x^2 + 108x + 81$
- 7)  $x^5 - 5x^4 - y + 10x^3y^2 - 10x^2y^3 + 5xy^4 - y^5$
- 8)  $27x^3 + 27x^2 + 9x + 1$
- 9)  $y^4 + 12y^3 + 54y^2 + 108y + 81$
- 10)  $y^6 + 12y^5x + 60y^4x^2 + 160y^3x^3 +$

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$$240 y^2x^4 + 192 yx^5 + 64 x^6$$

Pascals triangle and Binomial ws - CAC  
Mathematics

15N.1.sl.TZ0.6: In the expansion of  $\{(3x + 1)^n\}$ , the coefficient of the term in  $\{x^2\}$  is  $\{135n\}$ , where...

08N.2.sl.TZ0.2a: Expand  $\{(x - 2)^4\}$  and simplify your result.

09M.2.sl.TZ1.10a: Expand  $\{(x + h)^3\}$

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DP Mathematics SL Questionbank - IB  
Documents

IB Math SL Online Revision Course.

Topic 1 Algebra change topic; Arithmetic  
Sequence Arithmetic Series ... Series

Infinite Geometric Series Exponents and

Logarithms Natural Logarithms and

Exponential Function Binomial Expansion

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some quizzes. Related question(s)

Binomial Expansion 2 - IB Exam  
Preparation - Studynova

IB Standard If you expanded

$((2x-3)^{15})$ , the term containing

$(x^6)$  can be written as

$(\binom{15}{a} \times (2x)^b \times (-3)^c)$

(a) Write down the values of  $(a)$ , of

$(b)$  and  $(c)$ .

Exam-Style Questions on Binomial  
Theorem

Binomial Expansion. Option 1: Build a Pascal's triangle with 5 rows and explain how to find which row corresponds to this expansion, then demonstrate how to the row to find the number of terms in the expansion. Use the row as coefficients to expand this binomial, identifying correctly  $a$  and  $b$ , then simplify. 1 1.

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IB Math SL Da Young's Blog: Unit 5+6.  
Binomial Expansion ...

I don't quite understand how to approach part 'D' of this question. Anyone care to explain it to me? 178014

Binomial Expansion (Math SL) - The Student Room

IB Questionbank Maths SL 1 Binomial Theorem 1. Use the binomial theorem to complete this expansion.  $(3x + 2y)^4 = 81x^4 + 216x^3 y + \dots$  (Total 4 marks) 2. Complete the following expansion.  $(2 + ax)^4 = 16 + 32ax + \dots$  (Total 6 marks) 3. Consider the expansion of  $(x^2 - 2)^5$ . (a) Write down the number of terms in this expansion.

IB QBank Binomial Theorem - Mr Ghosh's Math Class

I don't know what to say to IB about the math SL exams at this stage. level 2. ...

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There goes my conditional offer requiring 6 in maths SL lol. Vector and binomial expansion questions were straight up unfair. I can't believe I wasted the past month and a half cramming for this exam. So demoralizing.

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