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Topic 1

(Sequences,

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Review: Binomial

Theorem ~~Binomial~~

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~~and IB Standard~~

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Math SL (or HL)

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Expansion

without GDC IB

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Questions) : IB

Math AA SL topic

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Binomial
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2019 MATH
SL Top Tip
Questions That
Are Most Likely
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Part 1 What is IB

MATH ANALYSIS HL

(MATH AA HL) 1

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~~Binomial~~

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[2018 Math SL]

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that will surely

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~~Are Most Likely~~

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~~**(Math Analysis**~~

~~Page 10/68~~

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\u0026

Approaches SL) 1

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to Use the

Binomial Theorem

(NancyPi)

~~Binomial~~

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The Binomial

Theorem: IB Math

AA SL topic 1.9

Binomial

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Binomial theorem

- Pascal's

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*triangle - (IB
Math, GCSE, A
level, AP)*

Binomial

expansion intro

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The Binomial

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subjects Yes, we

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science [??] ...

Expansion

Binomial

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This means the
expansion

equations is a^4

$+ 4a^3b + 6a^2$

$b^2 + 4ab^3 + b^4$

4. From the

equation $(2+x)^4$

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we know that $a = 2$, and $b = x$. We can substitute those numbers into the expansion

$$\begin{aligned} & \text{equation } \rightarrow 2 \\ & 4 + 4 \binom{2}{1} x + \\ & 6 \binom{2}{2} x^2 + 4 \\ & (2)x^3 + x^4. \end{aligned}$$

After expanding the equation, simplify: \rightarrow

$$16 + 32x + 24x^2$$

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+ $8x^3 + x^4$. Blog

Option 2:
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1.8 Find an

Unknown Variable

Given Partial

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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.

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Find the values
of a and b. $(a + 5b)^5 = e^x + 10e^{4x}$
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*[IB Math SL]
Exam Review:
Binomial Theorem
Page 22/68*

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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 4th, 5th and 6th terms in the expansion of $(1 + x)^n$ are in arithmetic

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Binomial Expansion
Worked Solutions

sequence, then

find the
value(s) of n .

3. If the last
term in the

expansion of $(3 - 1)^n$ is $-\log_2 81$,

find
the value of n .

4.

Binomial Theorem

- Practice

Questions - IBDP

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Math HL/SL

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Page 25/68

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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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contents of this

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for the IB

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Coursebook:

'Binomial
expansion'. This
resource

contains self-
assessment

worksheets (with
answers), which
allow students

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to consolidate
their learning
in the classroom
or as homework.

Solutions

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Maths SL 7:

Binomial

expansion-Assess

...

Answers to

Pascal's

Triangle and

Binomial

Page 29/68

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

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$$\begin{aligned} & y^3 + 54 y^2 + 108 \\ & y + 81 \cdot 10) y^6 + \\ & 12 y^5 x + 60 y^4 x^2 \\ & + 160 y^3 x^3 + 240 \\ & y^2 x^4 + 192 y x^5 + \\ & 64 x^6 \end{aligned}$$

*Pascals triangle
and Binomial ws
- CAC*

Mathematics

15N.1.sl.TZ0.6:

In the expansion
of $\{(3x +$

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Binomial Expansion Worked Solutions

$(1 + x)^n$, the coefficient of the term in x^2 is $\binom{n}{2}$, 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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Binomial

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you expanded

$\left((2x-3)^{15} \right)$,

the term

containing

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(x^6) can be written as $\binom{15}{a} (2x)^b (-3)^c$ (a) Write down the values of (a) , of (b) and (c) .

*Exam-Style
Questions on
Binomial Theorem
Binomial
Expansion.*

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Binomial Expansion Worked Solutions

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

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the row
coefficients to
expand this
binomial,
identifying
correctly a and
b, then
simplify. 1 1.

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Young's Blog:

Unit 5+6.

Binomial

Expansion ...

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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
Page 39/68*

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Binomial Theorem

1. Use the binomial theorem to complete this expansion. $(3x + 2y)^4 = 81x^4 + 216x^3 y + \dots$

$$(3x + 2y)^4 = 81x^4 + 216x^3 y + \dots$$

(Total 4 marks)

2. Complete the following expansion. $(2 + ax)^4 = 16 + 32ax + \dots$ (Total 6 marks) 3.

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Consider the expansion of $(x^2 - 2)^5$. (a) Write down the number of terms in this expansion.

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- Mr Ghosh's

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what to say to
IB about the

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math SL exams at
this stage.

level 2. ...

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conditional

offer requiring

6 in maths SL

lol. Vector and

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expansion

questions were

straight up

unfair. I can't

believe I wasted

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the past month
and a half
cramming for
this exam. So
demoralizing.

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presented in the unstarred sections of Chapters 1 through 11, was normally covered, but different applications of this basic material were stressed from year to year, and the book

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therefore
contains more
material than

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variable from a
mathematically
rigorous point
of view,
together with
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with linear

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