The Binomial Theorem · 1

Find the coefficient of x^3 in the expansion of $(x + 3)^5$.

The Binomial Theorem · 2

Find the coefficient of x^4 in the expansion of $(2x - 3)^7$.

The Binomial Theorem · 3

Find the 5th term of the expansion of $(x - 2)^6$, written in descending powers of x.

The Binomial Theorem · 4

Find the coefficient of $x^3\ y^4$ in the expansion of $(x + y)^7$.

The Binomial Theorem · 5

Find the coefficient of x^2 in the expansion of $(2x + 1)^3$.

The Binomial Theorem · 6

Find the coefficient of $x^3\ y^2$ in the expansion of $(x + y)^5$.

The Binomial Theorem · 7

Find the 4th term of the expansion of $(x + 3)^7$, written in descending powers of x.

The Binomial Theorem · 8

Find the coefficient of x^2 in the expansion of $(x - 2)^3$.

The Binomial Theorem · 2

ANSWER

-15120

The Binomial Theorem · 1

ANSWER

90

The Binomial Theorem · 4

ANSWER

35

The Binomial Theorem · 3

ANSWER

$240x^2$

The Binomial Theorem · 6

ANSWER

10

The Binomial Theorem · 5

ANSWER

12

The Binomial Theorem · 8

ANSWER

-6

The Binomial Theorem · 7

ANSWER

$945x^4$

The Binomial Theorem · 9

Find the coefficient of x^2 in the expansion of $(2x + 3)^5$.

The Binomial Theorem · 10

Find the 2nd term of the expansion of $(x + 1)^5$, written in descending powers of x.

The Binomial Theorem · 11

Find the constant term in the expansion of $(x + \frac{1}{x})^4$.

The Binomial Theorem · 12

Find the coefficient of x in the expansion of $(2x - 1)^5$.

The Binomial Theorem · 13

Find the 4th term of the expansion of $(x + 2)^4$, written in descending powers of x.

The Binomial Theorem · 14

Find the coefficient of x in the expansion of $(3x - 1)^5$.

The Binomial Theorem · 15

Find the coefficient of x^3 in the expansion of $(2x - 2)^7$.

The Binomial Theorem · 16

Find the 7th term of the expansion of $(x + 3)^7$, written in descending powers of x.

The Binomial Theorem · 10

ANSWER

$5x^4$

The Binomial Theorem · 9

ANSWER

1080

The Binomial Theorem · 12

ANSWER

10

The Binomial Theorem · 11

ANSWER

6

The Binomial Theorem · 14

ANSWER

15

The Binomial Theorem · 13

ANSWER

32x

The Binomial Theorem · 16

ANSWER

5103x

The Binomial Theorem · 15

ANSWER

4480

The Binomial Theorem · 17

Find the coefficient of x in the expansion of $(2x - 3)^7$.

The Binomial Theorem · 18

Find the 6th term of the expansion of $(x - 3)^7$, written in descending powers of x.

The Binomial Theorem · 19

Find the constant term in the expansion of $(x - \frac{2}{x})^6$.

The Binomial Theorem · 20

Find the coefficient of x in the expansion of $(-2x + 3)^3$.

The Binomial Theorem · 21

Find the constant term in the expansion of $(x + \frac{3}{x})^6$.

The Binomial Theorem · 22

Find the 4th term of the expansion of $(x - 1)^6$, written in descending powers of x.

The Binomial Theorem · 23

Find the 5th term of the expansion of $(x + 1)^7$, written in descending powers of x.

The Binomial Theorem · 24

Find the coefficient of x in the expansion of $(x + 3)^3$.

The Binomial Theorem · 18

ANSWER

$-5103x^2$

The Binomial Theorem · 17

ANSWER

10206

The Binomial Theorem · 20

ANSWER

-54

The Binomial Theorem · 19

ANSWER

-160

The Binomial Theorem · 22

ANSWER

$-20x^3$

The Binomial Theorem · 21

ANSWER

540

The Binomial Theorem · 24

ANSWER

27

The Binomial Theorem · 23

ANSWER

$35x^3$