The Binomial Theorem · 1

Find the coefficient of x^4 in the expansion of $(-2x + 1)^7$.

The Binomial Theorem · 2

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

The Binomial Theorem · 3

Find the 3rd term of the expansion of $(x + 2)^7$, written in descending powers of x.

The Binomial Theorem · 4

Find the constant term in the expansion of $(x^2 + \frac{3}{x})^3$.

The Binomial Theorem · 5

Find the 4th term of the expansion of $(x + 2)^5$, written in descending powers of x.

The Binomial Theorem · 6

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

The Binomial Theorem · 7

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

The Binomial Theorem · 8

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

The Binomial Theorem · 2

ANSWER

540

The Binomial Theorem · 1

ANSWER

560

The Binomial Theorem · 4

ANSWER

27

The Binomial Theorem · 3

ANSWER

$84x^5$

The Binomial Theorem · 6

ANSWER

$-10x^4$

The Binomial Theorem · 5

ANSWER

$80x^2$

The Binomial Theorem · 8

ANSWER

1458x

The Binomial Theorem · 7

ANSWER

192x

The Binomial Theorem · 9

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

The Binomial Theorem · 10

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

The Binomial Theorem · 11

Find the constant term in the expansion of $(x^2 + \frac{1}{x})^6$.

The Binomial Theorem · 12

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

The Binomial Theorem · 13

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

The Binomial Theorem · 14

Find the constant term in the expansion of $(x + \frac{3}{x})^4$.

The Binomial Theorem · 15

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

The Binomial Theorem · 16

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

The Binomial Theorem · 10

ANSWER

4x

The Binomial Theorem · 9

ANSWER

2430

The Binomial Theorem · 12

ANSWER

6

The Binomial Theorem · 11

ANSWER

15

The Binomial Theorem · 14

ANSWER

54

The Binomial Theorem · 13

ANSWER

1344

The Binomial Theorem · 16

ANSWER

-4

The Binomial Theorem · 15

ANSWER

-320

The Binomial Theorem · 17

Find the 3rd term of the expansion of $(x - 3)^4$, written in descending powers of x.

The Binomial Theorem · 18

Find the constant term in the expansion of $(x^2 - \frac{2}{x})^3$.

The Binomial Theorem · 19

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

The Binomial Theorem · 20

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

The Binomial Theorem · 21

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

The Binomial Theorem · 22

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

The Binomial Theorem · 23

Find the constant term in the expansion of $(x + \frac{1}{x})^2$.

The Binomial Theorem · 24

Find the 2nd term of the expansion of $(x + 3)^6$, written in descending powers of x.

The Binomial Theorem · 18

ANSWER

12

The Binomial Theorem · 17

ANSWER

$54x^2$

The Binomial Theorem · 20

ANSWER

24

The Binomial Theorem · 19

ANSWER

-54

The Binomial Theorem · 22

ANSWER

12

The Binomial Theorem · 21

ANSWER

80x

The Binomial Theorem · 24

ANSWER

$18x^5$

The Binomial Theorem · 23

ANSWER

2