The Binomial Theorem · 1

Find the coefficient of xy^4 in the expansion of $(x + y)^5$.

The Binomial Theorem · 2

Find the coefficient of x^5 in the expansion of $(x + 2)^6$.

The Binomial Theorem · 3

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

The Binomial Theorem · 4

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

The Binomial Theorem · 5

Find the coefficient of $x^2\,y^2$ in the expansion of $(x + y)^4$.

The Binomial Theorem · 6

Find the coefficient of x^4 in the expansion of $(x + 3)^5$.

The Binomial Theorem · 7

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

The Binomial Theorem · 8

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

The Binomial Theorem · 2

ANSWER

12

The Binomial Theorem · 1

ANSWER

5

The Binomial Theorem · 4

ANSWER

32

The Binomial Theorem · 3

ANSWER

4

The Binomial Theorem · 6

ANSWER

15

The Binomial Theorem · 5

ANSWER

6

The Binomial Theorem · 8

ANSWER

4

The Binomial Theorem · 7

ANSWER

4

The Binomial Theorem · 9

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

The Binomial Theorem · 10

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

The Binomial Theorem · 11

Find the coefficient of x^4 in the expansion of $(x + 1)^6$.

The Binomial Theorem · 12

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

The Binomial Theorem · 13

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

The Binomial Theorem · 14

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

The Binomial Theorem · 15

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

The Binomial Theorem · 16

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

The Binomial Theorem · 10

ANSWER

27

The Binomial Theorem · 9

ANSWER

80

The Binomial Theorem · 12

ANSWER

8

The Binomial Theorem · 11

ANSWER

15

The Binomial Theorem · 14

ANSWER

6

The Binomial Theorem · 13

ANSWER

12

The Binomial Theorem · 16

ANSWER

1458x

The Binomial Theorem · 15

ANSWER

10

The Binomial Theorem · 17

Find the coefficient of $x^4\ y^2$ in the expansion of $(x + y)^6$.

The Binomial Theorem · 18

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

The Binomial Theorem · 19

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

The Binomial Theorem · 20

Find the coefficient of x in the expansion of $(x - 1)^6$.

The Binomial Theorem · 21

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

The Binomial Theorem · 22

Find the coefficient of x^2 in the expansion of $(x + 1)^6$.

The Binomial Theorem · 23

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

The Binomial Theorem · 24

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

The Binomial Theorem · 18

ANSWER

6

The Binomial Theorem · 17

ANSWER

15

The Binomial Theorem · 20

ANSWER

-6

The Binomial Theorem · 19

ANSWER

$12x^5$

The Binomial Theorem · 22

ANSWER

15

The Binomial Theorem · 21

ANSWER

10

The Binomial Theorem · 24

ANSWER

3

The Binomial Theorem · 23

ANSWER

54