



Binomial Theorem - Polynomial with Integer and Power to Binomial Notation

and Power

1 Find the term containing p^2 in the expansion of this expression.

A	B	C
$\binom{5}{3} p^2 (2)^2$	$\binom{5}{3} p^3 (2)^2$	$\binom{5}{3} p^2 (2)^3$

$$(p + 2)^5$$

D
$\binom{3}{5} p^2 (2)^3$

2 Find the term containing p^3 in the expansion of this expression.

A	B	C
$\binom{4}{1} p^1 (-2)^3$	$\binom{4}{1} p^3 (-2)^3$	$\binom{4}{1} p^3 (-2)^1$

$$(p - 2)^4$$

D
$\binom{1}{4} p^3 (-2)^1$

3 Find the term containing y^1 in the expansion of this expression.

A	B	C
$\binom{4}{3} y^1 (3)^3$	$\binom{4}{3} y^3 (3)^1$	$\binom{4}{3} y^1 (3)^1$

$$(y + 3)^4$$

D
$\binom{3}{4} y^1 (3)^3$

4 Find the term containing x^2 in the expansion of this expression.

A	B	C
$\binom{5}{3} x^3 (-3)^2$	$\binom{5}{3} x^2 (-3)^2$	$\binom{3}{5} x^2 (-3)^3$

$$(x - 3)^5$$

D
$\binom{5}{3} x^2 (-3)^3$

5 Find the term containing q^4 in the expansion of this expression.

A	B	C
$\binom{5}{1} q^1 (3)^4$	$\binom{1}{5} q^4 (3)^1$	$\binom{5}{1} q^4 (3)^4$

$$(q + 3)^5$$

D
$\binom{5}{1} q^4 (3)^1$

6 Find the term containing x^3 in the expansion of this expression.

$$(x + 2)^5$$

A	B	C	D
$\binom{5}{2} x^3 (2)^3$	$\binom{2}{5} x^3 (2)^2$	$\binom{5}{2} x^2 (2)^3$	$\binom{5}{2} x^3 (2)^2$

7 Find the term containing n^2 in the expansion of this expression.

A	B	C
$\binom{3}{1} n^2 (-2)^2$	$\binom{1}{3} n^2 (-2)^1$	$\binom{3}{1} n^1 (-2)^2$

$$(n - 2)^3$$

D
$\binom{3}{1} n^2 (-2)^1$

8 Find the term containing t^3 in the expansion of this expression.

A	B	C
$\binom{5}{2} t^3 (-2)^3$	$\binom{5}{2} t^3 (-2)^2$	$\binom{5}{2} t^2 (-2)^3$

$$(t - 2)^5$$

D
$\binom{2}{5} t^3 (-2)^2$