

Binomial Theorem Worksheet

1. Find each coefficient described.

a) Coefficient of n^2 in the expansion of $(2 + 3n)^5$ = _____

b) Coefficient of m^{20} in the expansion of $(1 - 2m^4)^7$ = _____

c) Coefficient of a^2b^2 in the expansion of $(2a - b)^4$ = _____

d) Coefficient of y^2 in the expansion of $(y^2 - 1)^6$ = _____

e) Coefficient of x^3y^2 in the expansion of $(x - 3y)^5$ = _____

f) Coefficient of b^4 in the expansion of $(3b^4 - 1)^5$ = _____

g) Coefficient of y^6x^3 in the expansion of $(y^4 - 3x)^5$ = _____

h) Coefficient of x^2y^{20} in the expansion of $(x - 2y^4)^7$ = _____

2. Find each term described.

a) 5th term in the expansion of $(1 - 4m^2)^4$ = _____

b) 3rd term in the expansion of $(y - 4)^3$ = _____

c) 4th term in the expansion of $(4y + x)^4$ = _____

d) 2nd term in the expansion of $(1 - 4n^2)^4$ = _____

e) 1st term in the expansion of $(2n^4 - 1)^4$ = _____

f) 2nd term in the expansion of $(3u^2 - 1)^3$ = _____

g) 4th term in the expansion of $(1 - 5m^2)^3$ = _____

h) 1st term in the expansion of $(a + b)^5$ = _____

Binomial Theorem For Expansion Independent Practice Worksheet

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including multinomial expansion and combinatorial identities such as hockey stick identity Vandermonde identity and so on In addition to introducing these theorems and identities themselves this book also discusses various typical problems and techniques that are related to these two topics For more information please visit <https://www.mathallstar.org>

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