

## 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

**Lee Jun Cai**



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