

Binomial Theorem Mixed Practice

Name: _____

Date: _____

1. $(y-3)^3$

2. $(m+3)^4$

3. $(2x^3 - y)^4$

4. $(2x^3 - 1)^4$

5. $(3b^2 - 1)^3$

Find the term described:

6. 3rd term in expansion of $(4y + 3x)^4$

7. 4th term in expansion of $(x^4 + 2y)^4$

Find each coefficient described:

8. Coefficient of m^2n^3 in $(4m^2 + 2n)^4$

9. Coefficient of y^8 in $(2y^4 - 1)^4$

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10. $(2+3i)^3$

11. $(2-4i)^4$

12. $(2x-i)^4$

13. $i(4-i)^3$

14. $(2-3i)^2 + 2-4i$

15. $3i^{23} - 3i^2 + 4i^{17} - i^3$