

Binomial Theorem Homework

Use the Binomial Theorem to expand and simplify the expression. Complete these in your notebooks.

As you complete each expansion, check your answer using a binomial theorem online calculator. Just google "binomial theorem online calculator".

Keep in mind that you will not have this luxury on the quiz.

1. $(x + 3)^5$
2. $(2x + 5)^4$
3. $(3x - 1)^6$
4. $(5x - 2y)^3$
5. Find the 4th term in the expansion of $(4x + 5)^9$
6. Find the coefficient of x^7 in the expansion of $(x - 2)^{10}$

You will have a quiz on the Binomial Theorem next class. I will ask you to expand binomials just as you did above, however (as mentioned) you will not be able to check your answers using the online calculator. 😊