

C12 - 11.11 - Binomial Expansion HW

Expand using FOIL.

$$(x + 1)^2$$

$$(x + 1)^3$$

$$(x - 3)^2$$

$$(x - 3)^3$$

$$(a + b)^2$$

$$(a + b)^3$$

What do you notice about the coefficients of the last two examples and Pascal's triangle?

Expand using Pascal's Triangle

$$(x + y)^2$$

$$(x + y)^3$$

$$(x + y)^4$$

$$(x + y)^5$$

C12 - 11.11 - Binomial Theorem WS

How many terms are in the expansion:

$$(x + y)^2$$

$$(x + y)^4$$

$$(x + y)^{99}$$

What is the third term in the expansion of:

$$(x + y)^5$$

$$(x + 2)^5$$

What is the fifth term in the expansion of:

$$(x - 3)^7$$

$$(x - 2y)^8$$

What is the 2nd term in the expansion of:

$$(x^2 + 2)^5$$

What is the term with x^2 in the expansion of:

$$(x - 3)^7$$

What is the constant term in the expansion of:

$$(x + 2)^3$$