

(C2-5.1) Name:

Homework Questions 1 – Using Pascal’s Triangle to Expand Brackets

1. Complete Pascal’s triangle for the first 6 rows

2. Use pascal’s triangle to find the expansions of the following

a) $(x + y)^3$

b) $(a - b)^4$

c) $(1 + x)^5$

3. Find the coefficient of x^2 in the following expansions

a) $(2 - x)^5$

b) $(3 + 2x)^4$

c) $(2 - 2x)^3$

4. The coefficient of x^2 in the following expansion is 24. Find the value of y

$$(x + 2y)^3$$

5. Fully expand the following

$$(2 + x)(1 + x)^4$$