Algebra 21 Binomial Theorem

Example 1

Use the binomial theorem to expand (x + y )3

Question 1

Use the binomial theorem to expand:

1. (2x + 5)5
2. (3x – 2y)4
3. (x2 + $\frac{1}{x}$)3

Question 2

What is the co-efficient of x3 in the expansion of (x2 - $\frac{1}{x}$)6

Question 3

Which term in the expansion of (x4 + $\frac{2}{x3}$)7  is independent of x?