**Using Pascal’s Triangle**

Without using a calculator:

(a) write out the first seven rows of Pascal’s triangle.

(b) Hence find the expansions of:

(i) (ii)

Using your calculator, find:

(a) (b) (c)

(d) (e) (f)

Using your calculator, find:

(a) The first four terms, in ascending powers of , in the expansion of

(b) The first four terms, in ascending powers of , in the expansion of

(c) The first three terms, in ascending powers of , in the expansion of

(d) The first three terms, in ascending powers of , in the expansion of

Write down the combination you would use, and its value, for:

(a) The coefficient of the term in the expansion of

(b) The coefficient of the term in the expansion of

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