

5. Given that $\binom{40}{4} = \frac{40!}{4!b!}$,

(a) write down the value of b .

(1)

In the binomial expansion of $(1+x)^{40}$, the coefficients of x^4 and x^5 are p and q respectively.

(b) Find the value of $\frac{q}{p}$.

(3)



1. Find the first 3 terms, in ascending powers of x , of the binomial expansion of

$$(2 - 3x)^5$$

giving each term in its simplest form.

(4)

Q1

(Total 4 marks)



- $$(2-5x)^6$$

(4)

(Total 4 marks)



