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3. (a) Find the first 4 terms of the expansion of $(1 + \frac{x}{2})^{10}$ in ascending powers of x , giving each term in its simplest form. (4)

(b) Use your expansion to estimate the value of $(1.005)^{10}$, giving your answer to 5 decimal places. (3)

Lined area for student response.



1. Find the first 3 terms, in ascending powers of x , of the binomial expansion of $(3 - 2x)^5$, giving each term in its simplest form.

(4)

Handwriting lines for the student's answer.

(Total 4 marks)

Q1



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

$$(3 - x)^6$$

and simplify each term.

(4)

Q1

(Total 4 marks)



