

2. (a) Find the first 4 terms, in ascending powers of x , of the binomial expansion of

$$(2 - 3x)^6$$

giving each coefficient in simplest form.

(4)

A student wishes to use this expansion to find an approximation for 2.03^6

- (b) State the value of x that should be used.

(There is no need to carry out this calculation.)

(1)