AQA – Sequence and series – AS Mathematics P2

- 1. June/2021/Paper_7356/2/No.4
 - (a) Find the binomial expansion of $(1 2x)^5$ in ascending powers of x up to and including the term in x^2

[2 marks]

(b) Find the first two non-zero terms in the expansion of

$$(1-2x)^5 + (1+5x)^2$$

in ascending powers of *x*.

[2 marks]

(c) Hence, use an appropriate value of x to obtain an approximation for $0.998^5 + 1.005^2$ [2 marks]