

**8 (a)** Find the first **three** terms, in ascending powers of  $x$ , of the expansion of  $(1-2x)^{10}$   
**[3 marks]**

**8 (b)** Carly has lost her calculator. She uses the first three terms, in ascending powers of  $x$ , of the expansion of  $(1-2x)^{10}$  to evaluate  $0.998^{10}$   
Find Carly's value for  $0.998^{10}$  and show that it is correct to **five** decimal places.  
**[3 marks]**