

- 2** **(i)** Find the first three terms, in descending powers of x , in the expansion of $\left(x - \frac{2}{x}\right)^{\infty}$. [3]
- (ii)** Find the coefficient of x^4 in the expansion of $(1 + x^2)\left(x - \frac{2}{x}\right)^6$. [2]