

- 8** **(i)** Find the coefficient of x^0 in the expansion of $(x + 3x^2)^5$. [1]
- (ii)** Find the coefficient of x^8 in the expansion of $(x + 3x^2)^5$. [3]
- (iii)** Hence find the coefficient of x^8 in the expansion of $[1 + (x + 3x^2)]^5$. [4]