

- 3**     **(i)** Find the first 3 terms in the expansion of  $(2 - x)^6$  in ascending powers of  $x$ . [3]
- (ii)** Given that the coefficient of  $x^2$  in the expansion of  $(1 + 2x + ax^2)(2 - x)^6$  is 48, find the value of the constant  $a$ . [3]