

- 3**      **(i)** Find the first 3 terms, in ascending powers of  $x$ , in the expansion of  $(1 + x)^5$ . [2]

The coefficient of  $x^2$  in the expansion of  $(1 + (px + x^2))^5$  is 95.

- (ii)** Use the answer to part **(i)** to find the value of the positive constant  $p$ . [3]