- 3 The equation $x^2 + px + q = 0$, where p and q are constants, has roots -3 and 5.
 - (i) Find the values of p and q.

[2]

(ii) Using these values of p and q, find the value of the constant r for which the equation $x^2 + px + q + r = 0$ has equal roots. [3]