## **Higher Maths question bank :: Paper 1**

## 17. Completing the square

- 1. Express  $2x^2 + 12x + 23$  in the form  $p(x+q)^2 + r$ .
- 2. Express  $2x^2 + 4x + 3$  in the form  $p(x + q)^2 + r$ .
- 3. Express  $2x^2 + 16x + 31$  in the form  $p(x+q)^2 + r$ .
- 4. Express  $3x^2 12x + 17$  in the form  $p(x+q)^2 + r$ .
- 5. Express  $-3 x^2 12 x 8$  in the form  $p(x + q)^2 + r$ .
- 6. Express  $2x^2 + 28x + 94$  in the form  $p(x+q)^2 + r$ .
- 7. Express  $-3x^2 36x + 92$  in the form  $p(x+q)^2 + r$ .
- 8. Express  $3x^2 + 30x + 95$  in the form  $p(x + q)^2 + r$ .
- 9. Express  $2x^2 40x + 180$  in the form  $p(x+q)^2 + r$ .
- 10. Express  $7x^2 14x + 27$  in the form  $p(x+q)^2 + r$ .