

2C/D Completing the Square

1. Complete the square for the following expressions

a) $x^2 + 8x$

b) $x^2 - 4x$

c) $x^2 - 2x$

d) $x^2 + 16x$

2. Solve the following equations. You can use completing the square, but I prefer to stick to the Quadratic formula – give both a go and see if you have a preference (and get the same answer)

a) $x^2 + 4x - 3 = 0$

b) $x^2 - 6x + 4 = 0$

c) $2x^2 + 12x - 10 = 0$

d) $ax^2 + bx + c = 0$ (complete the square only – what do you find?)