

QUADRATIC EQUATIONS WITH NON-RATIONAL SOLUTIONS

Complete the square to solve the following quadratic equations, giving answers to even-numbered questions in surd form and answers to odd-numbered questions correct to two decimal places.

1 $x^2 - 2x - 4 = 0$

2 $x^2 + 4x - 4 = 0$

3 $x^2 - x - 5 = 0$

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

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9 $x^2 - 6x - 5 = 0$

10 $x^2 + 4x = 1$

11 $x^2 = 2x + 5$

12 $x^2 + 3x - 6 = 0$