

Quadratic equations

Task 1. Solve the given equations by factoring the left-hand side of the equation if possible.

(a) $49x^2 - 25x = 0$

(b) $49x^2 - 25 = 0$

(c) $49x^2 + 25 = 0$

Task 2. Solve the given quadratic equations by completing the square method.

(a) $x^2 - 20x + 100 = 0$

(b) $x^2 + 14x + 24 = 0$

(c) $x^2 + 30x + 226 = 0$

Task 3. Solve the given quadratic equations using the **discriminant** Δ .

(a) $3x^2 - 7x - 1 = 0$

(b) $-5x^2 + 5x - 2 = 0$

(c) $16x^2 - 8x + 1 = 0$