Equation Solution Report

Generated on 2025-04-19 20:27:29

Equation:

x^2 - 5x + 6 = 0

Solution Steps:

Solving quadratic equation:

Standard form: 1.0x² + -5.0x + 6.0 = 0

Step 1: Calculate discriminant

D = b² - 4ac = -5.0² - 4*1.0*6.0 = 1.0

√D = 1.0

Step 2: Apply quadratic formula

x = [-b ± √(b² - 4ac)] / (2a)

Step 3: Calculate roots

x■ = (--5.0 + 1.0) / (2*1.0) = 3.0

x■ = (--5.0 - 1.0) / (2*1.0) = 2.0

Solution: x■ = 3.0, x■ = 2.0