QUESTION Solve the equation $x^2 - 4x + 2 = 0$.

ANSWER

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$$x^2 - 4x + 2 = 0, x = \frac{4 \pm \sqrt{(-4)^2 - 4(1)(2)}}{2} = 2 \pm \frac{1}{2}\sqrt{8} = 2 \pm \sqrt{2}$$