CONFIDENT EDITION
(SAMPLE EBOOK)

Factor the binomials

(10 problems with solutions)

$$X^2 - 1 = \ ?$$

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PROBLEMS WITH SOLUTIONS

Problem 1:

Factor the binomial $x^2 - 1$

Problem 1:

Factor the binomial $x^2 - 1$

Formula:

$$a^2 - b^2 = (a + b) \cdot (a - b)$$

Solution:

$$x^2 - 1 = x^2 - 1^2 = (x + 1) \cdot (x - 1)$$

Answer:

$$(x + 1) \cdot (x - 1)$$

Problem 2:

Factor the binomial $x^2 - 2$

Problem 2:

Factor the binomial $x^2 - 2$

Formula:

$$a^2 - b^2 = (a + b) \cdot (a - b)$$

Solution:

$$x^2 - 2 = x^2 - (\sqrt{2})^2 = (x + \sqrt{2}) \cdot (x - \sqrt{2})$$

Answer:

$$(x + \sqrt{2})(x - \sqrt{2})$$

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