

Factor Polynomials

(10 problems)

$$X^2 - 6X + 9 = ?$$

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PROBLEM:

Factor

$$X^2 - 1$$

SOLUTION:

$$X^2 - 1$$

$$= X^2 - 1^2$$

$$= (X + 1) \cdot (X - 1)$$

PROBLEM:

Factor

$$X^2 - 2$$

SOLUTION:

$$X^2 - 2$$

$$= X^2 - (\sqrt{2})^2$$

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

PROBLEM:

Factor

$$1 - X^2$$

PROBLEM:

Factor

$$2 - X^2$$

PROBLEM:

Factor

$$X^2 + 3X$$

PROBLEM:

Factor

$$X^2 - 3X$$

PROBLEM:

Factor

$$X^2 + 3X + 2$$

PROBLEM:

Factor

$$X^2 - 3X + 2$$

PROBLEM:

Factor

$$X^2 + 6X + 9$$

PROBLEM:

Factor

$$X^2 - 6X + 9$$

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