

Name : \_\_\_\_\_

# Factoring Binomials

Factor each completely.

$$8x^3 + 1$$

$$x^2 - 25x$$

$$28x^3 - 7x$$

$$x^3 + 8$$

$$50x^2 - 25$$

$$15x^2 + 18x$$

$$64x^3 + 27$$

$$6x + 15$$

$$90a^2 - 9$$

$$128 + 2x^3$$

$$4x^3 - 8x^2$$

$$9x^5 + 27x^3$$

$$32x^3 - 2x$$

$$-2x^2 - 18$$

$$5x^2 + 10x$$

Name : \_\_\_\_\_

# Factoring Binomials

## Answers

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 $8x^3 + 1$

$x^2 - 25x$

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 $28x^3 - 7x$

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 $(2x + 1)(4x^2 - 2x + 1)$

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 $x(x - 25)$

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 $7x(4x^2 - 1)$

$x^3 + 8$

$50x^2 - 25$

$15x^2 + 18x$

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 $(x + 2)(x^2 - 2x + 4)$

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 $25(2x^2 - 1)$

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 $3x(5x + 6)$

$64x^3 + 27$

$6x + 15$

$90a^2 - 9$

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 $(4x + 3)(16x^2 - 12x + 9)$

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 $3(2x + 5)$

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 $9(10a^2 - 1)$

$128 + 2x^3$

$4x^3 - 8x^2$

$9x^5 + 27x^3$

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 $2(x + 4)(x^2 - 4x + 16)$

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 $4x^2(x - 2)$

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 $9x^2(x^2 + 3)$

$32x^3 - 2x$

$-2x^2 - 18$

$5x^2 + 10x$

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 $2x(4x + 1)(4x - 1)$

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 $-2(x^2 + 9)$

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 $5x(x + 2)$