

Name : _____

Factoring Binomials Practice Worksheet

Factor each completely.

(1) $2x^3 + 16$

(2) $8x^3 + 24$

(3) $8x^2 - 12$

(4) $8y - 2y^2$

(5) $8x^3 + 1$

(6) $-18x^2 + 32y^2$

(7) $4x^2 + 2x$

(8) $12x^2 - 27$

(9) $54x^2 + 128x$

(10) $6x^2 + 10x$

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Answers

(1) $2x^3 + 16$

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

(3) $8x^2 - 12$

$4(2x^2 - 3)$

(5) $8x^3 + 1$

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

(7) $4x^2 + 2x$

$2x(2x + 1)$

(9) $54x^2 + 128x$

$2x(27x + 64)$

(2) $8x^3 + 24$

$8(x^3 + 3)$

(4) $8y - 2y^2$

$2y(4 - y)$

(6) $-18x^2 + 32y^2$

$-2(3x + 4y)(3x - 4y)$

(8) $12x^2 - 27$

$3(4x^2 - 9)$

(10) $6x^2 + 10x$

$2x(3x + 5)$