



## Factoring Cubics

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

Date: \_\_\_\_\_ Score: \_\_\_\_\_

$$x^3 + 3x^2 + 7x + 5$$

$$18x^3 + 25x^2 - 19x - 24$$

$$63x^3 + 16x^2 - 172x + 96$$

$$x^3 + 6x^2 - 37x - 210$$

$$x^3 - 21x^2 + 135x - 243$$

$$5x^3 + 14x^2 + 8x$$

$$x^3 + 11x^2 + 23x + 45$$

$$9x^2 + 81x$$

$$4x^2 + 16x$$

$$x^3 - 19x^2 + 120x - 252$$



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

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$$x^3 + 3x^2 + 7x + 5$$
$$(x + 1)(x^2 + 2x + 5)$$

$$18x^3 + 25x^2 - 19x - 24$$
$$(2x + 3)(x - 1)(9x + 8)$$

$$63x^3 + 16x^2 - 172x + 96$$
$$(9x - 8)(x + 2)(7x - 6)$$

$$x^3 + 6x^2 - 37x - 210$$
$$(x + 7)(x - 6)(x + 5)$$

$$x^3 - 21x^2 + 135x - 243$$
$$(x - 3)(x - 9)(x - 9)$$

$$5x^3 + 14x^2 + 8x$$
$$(5x + 4)(x + 2)x$$

$$x^3 + 11x^2 + 23x + 45$$
$$(x + 9)(x^2 + 2x + 5)$$

$$9x^2 + 81x$$
$$9x(x + 9)$$

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

$$x^3 - 19x^2 + 120x - 252$$
$$(x - 6)(x - 6)(x - 7)$$