



## Factoring Cubics

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

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

$$x^3 - 7x^2 - 12x - 54$$

$$x^3 + 2x + 12$$

$$x^3 + 11x^2 + 6x - 144$$

$$x^3 + 4x^2 - 81x - 324$$

$$7x^2 + 49x$$

$$4x^2 - 16x$$

$$x^3 - 7x^2 + 11x - 30$$

$$20x^3 - 21x^2 - 29x + 30$$

$$63x^3 - 236x^2 - 124x + 240$$

$$x^3 + 11x^2 - 45x - 567$$



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$$x^3 - 7x^2 - 12x - 54$$
$$(x - 9)(x^2 + 2x + 6)$$

$$x^3 + 2x + 12$$
$$(x + 2)(x^2 - 2x + 6)$$

$$x^3 + 11x^2 + 6x - 144$$
$$(x + 8)(x - 3)(x + 6)$$

$$x^3 + 4x^2 - 81x - 324$$
$$(x + 9)(x - 9)(x + 4)$$

$$7x^2 + 49x$$
$$7x(x + 7)$$

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

$$x^3 - 7x^2 + 11x - 30$$
$$(x - 6)(x^2 - x + 5)$$

$$20x^3 - 21x^2 - 29x + 30$$
$$(5x + 6)(x - 1)(4x - 5)$$

$$63x^3 - 236x^2 - 124x + 240$$
$$(9x + 10)(x - 4)(7x - 6)$$

$$x^3 + 11x^2 - 45x - 567$$
$$(x - 7)(x + 9)(x + 9)$$