



Factoring Cubics

Name: _____

Date: _____ Score: _____

$$x^3 + x^2 - 54x - 144$$

$$6x^2 - 36x$$

$$9x^2 - 81x$$

$$x^3 + 8x^2 - 6x + 27$$

$$x^3 - 3x^2 - 36x + 108$$

$$x^3 + 6x^2 - 63x - 392$$

$$10x^3 + 13x^2 - 15x - 18$$

$$6x^2 + 36x$$

$$8x^2 + 64x$$

$$7x^2 + 49x$$



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$$x^3 + x^2 - 54x - 144$$
$$(x + 3)(x + 6)(x - 8)$$

$$6x^2 - 36x$$
$$6x(x - 6)$$

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

$$x^3 + 8x^2 - 6x + 27$$
$$(x + 9)(x^2 - x + 3)$$

$$x^3 - 3x^2 - 36x + 108$$
$$(x - 6)(x + 6)(x - 3)$$

$$x^3 + 6x^2 - 63x - 392$$
$$(x + 7)(x + 7)(x - 8)$$

$$10x^3 + 13x^2 - 15x - 18$$
$$(2x + 3)(x + 1)(5x - 6)$$

$$6x^2 + 36x$$
$$6x(x + 6)$$

$$8x^2 + 64x$$
$$8x(x + 8)$$

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