



Factoring Cubics

Name: _____

Date: _____ Score: _____

$$x^3 - 49x + 120$$

$$x^3 + 9x^2 - x - 9$$

$$8x^2 + 64x$$

$$12x^3 + 91x^2 + 39x - 70$$

$$7x^2 + 49x$$

$$x^3 - 5x^2 - 10x - 28$$

$$x^3 - 7x^2 - 6x - 16$$

$$4x^2 - 16x$$

$$x^3 - x^2 + 4x + 6$$

$$48x^3 - 322x^2 - 143x + 315$$



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$$x^3 - 49x + 120$$
$$(x - 3)(x - 5)(x + 8)$$

$$x^3 + 9x^2 - x - 9$$
$$(x - 1)(x + 1)(x + 9)$$

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

$$12x^3 + 91x^2 + 39x - 70$$
$$(4x + 5)(x + 7)(3x - 2)$$

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

$$x^3 - 5x^2 - 10x - 28$$
$$(x - 7)(x^2 + 2x + 4)$$

$$x^3 - 7x^2 - 6x - 16$$
$$(x - 8)(x^2 + x + 2)$$

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

$$x^3 - x^2 + 4x + 6$$
$$(x + 1)(x^2 - 2x + 6)$$

$$48x^3 - 322x^2 - 143x + 315$$
$$(8x + 9)(x - 7)(6x - 5)$$