



Factoring Cubics

Name: _____

Date: _____ Score: _____

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

$$x^3 - 4x^2 + 6x - 9$$

$$x^3 - 5x^2 + 10x - 24$$

$$x^3 + 23x^2 + 176x + 448$$

$$6x^2 - 36x$$

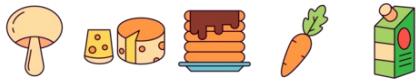
$$x^3 + 5x^2 + 12x + 18$$

$$3x^2 - 9x$$

$$36x^3 - 109x + 70$$

$$2x^2 + 4x$$

$$56x^3 + 55x^2 - 43x - 42$$



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$$\begin{array}{ll}x^3 + x^2 - 2 & x^3 - 4x^2 + 6x - 9 \\(x - 1)(x^2 + 2x + 2) & (x - 3)(x^2 - x + 3)\end{array}$$

$$\begin{array}{ll}x^3 - 5x^2 + 10x - 24 & x^3 + 23x^2 + 176x + 448 \\(x - 4)(x^2 - x + 6) & (x + 7)(x + 8)(x + 8)\end{array}$$

$$\begin{array}{ll}6x^2 - 36x & x^3 + 5x^2 + 12x + 18 \\6x(x - 6) & (x + 3)(x^2 + 2x + 6)\end{array}$$

$$\begin{array}{ll}3x^2 - 9x & 36x^3 - 109x + 70 \\3x(x - 3) & (6x - 7)(x + 2)(6x - 5)\end{array}$$

$$\begin{array}{ll}2x^2 + 4x & 56x^3 + 55x^2 - 43x - 42 \\2x(x + 2) & (7x + 6)(x + 1)(8x - 7)\end{array}$$