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$y = (x - 3)^2 (x + 4)$	$y = x^3 - 2x^2 - 15x + 36$	x intercept at (-4, 0) touches x axis at (3, 0)
y = 3(x - 3)(x + 4)(x + 1)	$y = 3x^3 + 6x^2 - 33x - 36$	x intercepts at (3,0), (-4, 0), (-1, 0)
y = (x - 1)(x + 4)(x + 3)	$y = x^3 + 6x^2 + 5x - 12$	x intercepts at (1, 0), (-3, 0), (-4, 0)
y =x (x - 4) <sup>2</sup>	$y = x^3 - 8x^2 + 16x$	x intercept at (0, 0) touches x axis at (4, 0)
y = (x - 3) (4 - x)(x + 1)	$y = -x^3 + 6x^2 - 5x - 12$	x intercepts at (3,0), (4, 0), (-1, 0)

$y = (x - 3)^3 + 4$	$y = x^3 - 9x^2 + 27x - 23$	Point of inflection at (3,4)
$y = -(x + 3)^3 - 4$	$y = -x^3 - 9x^2 - 27x - 31$	Point of inflection at (-3,-4)
$y = 3 (x - 4)^3$	$y = 3x^3 - 36x^2 + 144x - 192$	Point of inflection at (4,0)
$y = (4 - x)^3$	$y = -x^3 + 12x^2 - 48x + 64$	Point of inflection at (4,0)
$y = 4x^{3}$	$y = 4x^{3}$	Point of inflection at (0,0)
$y = (x - 4)^3$	$y = x^3 - 12x^2 + 48x - 64$	Point of inflection at (4,0)