최고난도 인수분해 2163제

I

문제

1. 사차식의 인수분해

1.1 일계수 사차식

$x^4+6x^3+9x^2+12x-20$

$x^4+3x^3-5x^2+6x-2$

$x^4-9x^3+19x^2+3x-2$

$x^4-3x^3-8x^2+11x+3$

$x^4+5x^3+10x^2+18x+8$

$x^4-3x^3-4x^2+11x+5$

$x^4+x^3-4x^2+11x-15$

$x^4+6x^3+9x^2-5$

$x^4+7x^3+9x^2+10x-20$

$x^4-4x^3-3x^2+20x-10$

$x^4-9x^3+15x^2+22x+6$

$x^4-6x^3+12x^2-9x-10$

$x^4+4x^3-8x^2+9x-4$

$x^4-8x^2-15x-6$

$x^4-5x^3-2x^2+25x-15$

$x^4-23x^2+40x-15$

x^4+2x^2+5x-4

$x^4+6x^3+3x^2+10x-15$

$x^4+7x^3+20x^2+27x+15$

x^4-25

$x^4-x^3+x^2+3x-12$

$x^4+x^3-4x^2+11x-3$

$x^4-8x^3+16x^2-11x-12$

$x^4-2x^3-2x^2+17x-20$

$x^4+9x^3+12x^2-36x+16$

$x^4-2x^3-x^2-2x-2$

$x^4-4x^3-3x^2+20x-15$

$x^4+2x^3+7x^2+10x+25$

$x^4+x^3-5x^2-2x+6$

$x^4-4x^3+7x^2-10x+3$

$x^4+x^3-18x^2+x+1$

$x^4-5x^3+9x^2-11x-10$

$x^4+7x^3+4x^2-18x+8$

$x^4-9x^3+21x^2-20$

$x^4+2x^3-21x^2-6x+9$

$x^4-6x^3-x^2+18x+9$

x^4+4x^2-x+6

$x^4-3x^3-6x^2-13x+3$

$x^4-5x^3+4x^2+3x-1$

$x^4+8x^3+11x^2-18x+3$

$x^4-6x^3+8x^2+10x-25$

$x^4-5x^3+7x^2-20x+12$

$x^4+4x^3-x^2+8x+4$

$x^4+5x^3+5x^2-2x-2$

$x^4-6x^2-15x-4$

$x^4-2x^3-18x^2+7x+2$

$x^4+5x^3+4x^2+3x-1$

$x^4-3x+20$

$x^4-x^3-22x^2-26x-8$

$x^4-x^3-26x^2-6x+8$

$x^4+x^3-20x^2-11x+15$

$x^4-7x^3+12x^2-16x-8$

$x^4+3x^3-7x^2-2x+2$

$x^4-5x^3+6x^2-14x-8$

$x^4+3x^3-7x^2-20x-10$

$x^4+6x^3+x^2-24x+15$

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

$x^4+x^3+2x^2+11x-5$

$x^4+2x^3-13x^2-30x-15$

$x^4+3x^3-16x^2-16x+8$

$x^4-x^3-3x^2-x+20$

$x^4-6x^3+2x^2+22x+5$

$x^4+2x^3-9x^2-10x+8$

$x^4-6x^3+3x^2-10x-15$

$x^4+x^3-17x^2+x+6$

$x^4-9x^3+21x^2-2x-6$

$x^4-3x^3-3x^2-14x-6$

$x^4+2x^3+4x^2+9x+12$

$x^4+2x^3-15x^2-24x-9$

$x^4+3x^3+3x^2-6x-10$

$x^4-x^3-10x-8$

$x^4+5x^3-2x^2+15x-15$

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

$x^4+9x^3+15x^2-22x+6$

$x^4+2x^3-7x^2-8x+16$

$x^4-x^3-20x^2+9x-1$

x^4+6x^2+x+12

$x^4-5x^3+6x^2-20x+8$

$x^4+3x^3-4x^2+15x-9$

$x^4-x^3+2x^2-9x+15$

$x^4-3x^3+2x^2-x-1$

$x^4+x^3+x^2+4x-12$

$x^4+7x^3+16x^2+11x-5$

$x^4-5x^3+x^2-10x-2$

$x^4+7x^3+8x^2+5x-15$

$x^4-3x^3-5x^2-4x+6$

$x^4+9x^3+16x^2-19x+3$

$x^4-4x^3-7x^2+4x+1$

$x^4+3x^3+6x^2+15x+5$

$x^4-22x^2+35x-10$

$x^4-4x^3+3x^2-10x+15$

$x^4+x^3+5x^2-x+10$

$x^4-x^3-10x^2+4x+16$

$x^4-3x^3-16x^2+2x+8$

$x^4-9x^3+14x^2+26x+8$

$x^4-3x^3-13x^2+29x-10$

$x^4+3x^3-2x^2-15x-15$

$x^4+3x^3+3x^2-2x-12$

$x^4-8x^3+17x^2-4x-3$

$x^4+5x^3+7x^2+25x+10$

$x^4+8x^3+15x^2+2x-1$

$x^4-5x^3-x^2+16x+10$

$x^4 - 9x^3 + 17x^2 + 10x - 10$
$x^4 - x^3 - 14x^2 + 15x - 3$
$x^4 - x^3 - 6x^2 - 10x - 4$
$x^4 + 7x^3 + 9x^2 - 8x - 2$
$x^4 - x^3 + x^2 - 2x - 2$
$x^4 + 2x^3 - 6x^2 - x + 2$
$x^4 - x^3 - 2x^2 - 12x - 16$
$x^4 - 9x^2 + 18x - 9$
$x^4 - 10x^2 - 4x + 8$
$x^4 - 4x^3 - x^2 + 8x - 2$
$x^4 + 5x^3 - 7x^2 - 15x + 12$
$x^4 - 6x^3 + 17x^2 - 24x + 15$
$x^4 + 2x^3 + 10x^2 + 9x + 20$
$x^4 - 4x^3 - 4x^2 - 11x - 2$
$x^4 - 9x^3 + 14x^2 + 25x + 5$
$x^4 - 5x^3 + 10x^2 - 7x - 5$
$x^4 - x^3 - 6x^2 + 3x + 9$
$x^4 - 3x^3 - 10x^2 + 7x - 1$
$x^4 - 6x^3 - 4x^2 + 29x + 20$
$x^4 + 6x^3 + 3x^2 - 18x + 4$
$x^4 - 2x^3 + 10x^2 - 10x + 25$
$x^4 + 7x^2 + 2x + 15$
$x^4 + x^3 + 2x^2 - 7x - 5$
$x^4 + 3x^3 - x^2 + 22x - 10$
$x^4 + 8x^3 + 19x^2 + 10x - 5$
$x^4 + 3x^3 + 5x^2 + 4x + 2$

$x^4 - 4x^2 - 8x - 4$
$x^4 + 6x^3 - 24x + 16$
$x^4 + 2x^3 + 2x^2 + 6x - 3$
$x^4 + 2x^3 + x^2 - 9$
$x^4 - 7x^3 + 10x^2 - 12x - 16$
$x^4 + 6x^3 - 3x^2 - 24x + 16$
$x^4 - x^3 - 3x^2 - x - 4$
$x^4 + 6x^3 + 7x^2 + 14x - 3$
$x^4 + 4x^3 - 9x^2 + 10x - 5$
$x^4 - 2x^3 - 10x - 25$
$x^4 + x^3 - 26x^2 - 3x + 9$
$x^4 - x^3 - 21x^2 - 13x - 2$
$x^4 - 15x^2 - 12x - 2$
$x^4 + 4x^3 - 5x^2 + 12x - 4$
$x^4 + 2x^3 - 10x^2 + 9x + 6$
$x^4 - 4x^3 + 3x^2 - 4x - 4$
$x^4 + 7x^3 + 8x^2 - 17x - 5$
$x^4 + 2x^3 - 13x^2 + 18x - 3$
$x^4 + 4x^3 - 6x^2 - 20x + 5$
$x^4 - 4x^3 - 3x^2 + 8x + 5$
$x^4 - 27x^2 + 1$
$x^4 + 9x^3 + 16x^2 - 18x + 4$
$x^4 + 6x^3 + 6x^2 + 17x - 12$
$x^4 - 6x^3 + 3x^2 - 2x - 3$
$x^4 - 5x^3 + 5x^2 - 6$
$x^4 - 3x^3 + x^2 - 15x + 4$

$x^4 - 3x^3 - 6x^2 + 13x - 3$
$x^4 - 4x^3 + 13x^2 - 20x + 25$
$x^4 - 2x^3 + 2x^2 - x - 20$
$x^4 - 2x^3 - 7x^2 + 26x - 20$
$x^4 + 3x^3 - 4x^2 + 20x - 16$
$x^4 - 5x^3 + 5x^2 - 10x + 6$
$x^4 - 3x^3 - 5x^2 + 9x + 6$
$x^4 - 4x^3 + 6x^2 - 4x - 8$
$x^4 + 2x^3 + 13x - 4$
$x^4 - 8x^3 + 11x^2 + 20x + 6$
$x^4 + 3x^3 + 10x^2 + 15x + 25$
$x^4 + x^3 - 23x^2 + 3x + 2$
$x^4 + 10x^3 + 25x^2 - 9$
$x^4 + x^3 - 12x^2 + 28x - 16$
$x^4 - x^3 - 23x^2 - 3x + 2$
$x^4 - 34x^2 + 5x + 20$
$x^4 - 5x^3 - 2x^2 - 10x - 8$
$x^4 - x^3 - 15x^2 + 5x + 2$
$x^4 + 2x^3 - 7x^2 + 16x - 6$
$x^4 - 2x^3 - 14x^2 + 8$
$x^4 - 10x^3 + 21x^2 + 20x + 4$
$x^4 - 7x^3 + 7x^2 + 9x + 2$
$x^4 + 8x^3 + 15x^2 - 4x - 6$
$x^4 - x^3 + 7x^2 - 4x + 12$
$x^4 + 3x^3 + x^2 - 6x - 20$
$x^4 - x^3 - 3x^2 - 14x - 4$

1.2 일계수가 아닌 사차식

$10x^4 - 13x^3 + 18x^2 - 10x + 4$
$20x^4 + 36x^3 + 29x^2 + 8x - 15$
$3x^4 + x^3 - 7x^2 - 2x + 2$
$8x^4 + 18x^3 - 16x^2 - 19x + 12$
$10x^4 + 14x^3 + 13x^2 + 6x + 2$
$9x^4 + 3x^3 - 33x^2 - 2x + 20$
$5x^4 + 19x^3 + 19x^2 + 10x + 2$
$10x^4 - 4x^3 + 19x^2 - x + 15$
$6x^4 + 3x^3 + 2x^2 + 4x - 8$
$15x^4 + 37x^3 - 7x^2 - 32x + 12$
$20x^4 + 20x^3 - 7x^2 - 15x - 6$
$8x^4 + 2x^3 - 13x^2 + 9x - 20$
$10x^4 - 3x^2 + 3x + 1$
$9x^4 + 14x^2 - 3x + 4$
$9x^4 - 6x^3 - 39x^2 + 8x + 16$
$10x^4 + 30x^3 - x^2 - 27x + 9$
$16x^4 + 8x^3 + 9x^2 - 11x - 10$
$12x^4 - 12x^3 - 13x^2 + 9x + 3$

$4x^4 - 4x^3 - 13x^2 - 21x - 6$
$8x^4 + 18x^3 + 29x^2 + 21x + 12$
$6x^4 + 10x^3 - 7x^2 - 10x + 4$
$8x^4 - 2x^3 - 19x^2 - 3x + 4$
$2x^4 + 2x^3 + 9x^2 + 6x + 9$
$15x^4 + 10x^3 + 24x^2 + 17x + 12$
$20x^4 - 32x^3 - 5x^2 + 15x + 3$
$10x^4 - 4x^3 + 17x^2 - 10x - 20$
$10x^4 + 4x^3 - 13x^2 - 2x + 4$
$3x^4 - 2x^3 + 6x^2 - 6x - 9$
$15x^4 + 10x^3 + 7x^2 + 16$
$2x^4 - 4x^3 - 11x^2 + 6x + 12$
$5x^4 - 12x^3 - 13x^2 - 6x - 1$
$5x^4 - 3x^3 - 22x^2 - 15x - 25$
$5x^4 + 19x^3 - 23x^2 + 8x - 4$
$20x^4 + 27x^3 + 46x^2 + 24x + 15$
$2x^4 + 8x^3 + 15x^2 + 7x - 5$
$20x^4 - 19x^3 + 29x^2 - 14x + 8$

$4x^4 + 15x^2 - 2x + 15$
$5x^4 + 16x^3 - 11x^2 - 3$
$10x^4 - 5x^3 - 13x^2 + 11x - 2$
$10x^4 + 17x^3 - 23x^2 - 13x + 12$
$4x^4 - 12x^3 + 9x^2 - 18x - 8$
$9x^4 - 15x^3 + 36x^2 - 25x + 25$
$25x^4 + 36x^2 + 3x + 20$
$10x^4 + 27x^3 + 14x^2 + 11x + 2$
$16x^4 + 8x^3 - 8x^2 - 6x - 3$
$12x^4 - 31x^3 + 9x^2 + 13x - 15$
$4x^4 + 12x^3 + 23x^2 + 25x + 20$
$3x^4 - 14x^3 + 31x^2 - 28x + 5$
$3x^4 - 4x^3 + 6x^2 + 4x + 3$
$4x^4 - 8x^3 + x^2 - 10x - 5$
$12x^4 - 12x^3 - 5x^2 + 9x - 3$
$6x^4 - 10x^3 - 5x^2 + 25x - 25$
$25x^4 - 30x^3 + 15x^2 - 22x - 15$
$4x^4 + 11x^3 - 2x^2 - 33x - 10$

$15x^4 + 9x^3 + 5x^2 - 6x - 10$

$15x^4 - 14x^3 + 14x^2 - 12x + 8$

$12x^4 + 23x^3 + 24x^2 + 21x - 10$

$3x^4 + 8x^3 + 7x^2 - 20x - 25$

$20x^4 + 6x^3 + 17x^2 - x + 3$

$20x^4 - 9x^3 + 18x^2 - 4x + 3$

$15x^4 - 2x^3 - x^2 - 8x - 15$

$9x^4 - 12x^3 + 21x^2 - 20x + 10$

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

$5x^4 - 9x^3 - 4x^2 + 7x + 3$

$16x^4 - 16x^3 + 15x^2 - 7x + 2$

$5x^4 - 19x^3 + 10x^2 - 5x - 3$

$6x^4 + 3x^3 + 2x^2 - 5x - 20$

$2x^4 + 7x^3 + 5x^2 - 9x - 12$

$15x^4 + 32x^3 + 48x^2 + 32x + 16$

$4x^4 + 17x^3 + 6x^2 - 7x - 2$

$15x^4 - 13x^3 - 6x^2 - 4x - 16$

$3x^4 - 10x^3 - 16x^2 - 5x + 6$

$5x^4 - x^3 + 24x^2 - 5x - 5$

$9x^4 - 24x^3 + 28x^2 - 16x - 5$

$8x^4 + 14x^3 + 4x^2 + x - 15$

$12x^4 + 24x^3 + 43x^2 + 31x + 20$

$10x^4 - 14x^3 - 37x^2 + 11x + 15$

$12x^4 + 18x^3 - 13x^2 - 11x + 4$

$20x^4 - 26x^3 - 13x^2 + 18x - 5$

$16x^4 + 20x^3 - 32x^2 - 15x + 15$

$25x^4 + 25x^3 - 25x^2 - 5x + 4$

$12x^4 + x^3 + 7x^2 - 3x + 3$

$5x^4 - 11x^3 + 31x^2 - 13x + 20$

$5x^4 - 11x^3 + 10x^2 + 29x - 15$

$12x^4 - 10x^3 + 19x^2 - 9x - 5$

$5x^4 - x^3 - 12x^2 + 3x - 9$

$4x^4 + 4x^3 - 16x^2 - 22x - 5$

$6x^4 - 21x^3 + 4x^2 + 23x + 4$

$10x^4 - 17x^3 - 4x^2 - 9x - 12$

$3x^4 + 10x^3 - 22x^2 - 25x - 6$

$4x^4 - 8x^3 - 12x^2 + 12x + 9$

$3x^4 - 14x^2 + 15$

$20x^4 + 10x^3 + 11x^2 + 27x - 5$

$2x^4 - 7x^3 + 12x^2 - 19x - 4$

$10x^4 + 4x^3 + 15x^2 + 10x - 25$

$20x^4 + 41x^3 - 8x^2 - 26x + 8$

$20x^4 - 25x^3 - 6x^2 - x - 4$

$25x^4 + 20x^3 + 34x^2 + 12x + 5$

$20x^4 + 5x^3 - 42x^2 + 35x - 10$

$4x^4 + 20x^3 + 17x^2 + 16x - 5$

$3x^4 - 9x^3 - 14x^2 + 23x - 5$

$15x^4 - 5x^3 + 6x^2 - 31x - 15$

$16x^4 - 32x^3 - 9x^2 + 22x + 8$

$20x^4 - 2x^3 - x^2 - 25x - 25$

$4x^4 + 3x^3 + 12x^2 + 3x + 10$

$5x^4 + 2x^3 + 6x^2 + 4x - 8$

$15x^4 + 4x^3 - 8x^2 + 8x - 4$

$20x^4 - 5x^3 - 3x^2 + 2x - 2$

$9x^4 + 12x^3 + x^2 - 20x - 15$

$2x^4 + 9x^3 + 22x^2 + 27x + 20$

$16x^4 - 4x^3 - 24x^2 - 31x - 12$

$5x^4 + 9x^3 + 12x^2 + 6x + 8$

$20x^4 + 45x^3 + 13x^2 - 10x - 8$

$10x^4 + 22x^3 + 13x^2 - 9x - 9$

$16x^4 + 24x^3 - 16x^2 - 14x + 5$

$15x^4 - 13x^3 + 9x^2 - 2$

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

$16x^4 + 24x^3 + 25x^2 + 9x + 4$

$2x^4 - 4x^3 + 9x^2 - 7x + 6$

$5x^4 + 3x^3 + 10x^2 - 2x + 4$

$15x^4 - 26x^3 + 4x^2 - 4x - 4$

$9x^4 - 31x^2 - 20x - 3$

$9x^4 + 18x^3 + 23x^2 + 18x + 9$

$4x^4 + 17x^3 + x^2 + 18x - 10$

$25x^4 + 20x^3 + 5x^2 + 28x - 15$

$12x^4 - 14x^3 - 23x^2 - 13x - 4$

$15x^4 + x^3 - 18x^2 + 11x - 3$

$20x^4 - 30x^3 - x^2 + 13x - 3$

$4x^4 - 17x^3 - 12x^2 + 31x - 10$

$12x^4 - 32x^3 - 11x^2 + 41x + 20$

$3x^4 + 9x^3 + 7x^2 - 4x - 10$

$5x^4 - 9x^3 + 18x^2 - 12x + 8$

$4x^4 + 3x^3 - 22x^2 + 4x + 5$

$15x^4 + 21x^3 - 22x^2 - 13x + 5$

$3x^4 - 13x^3 - 12x^2 - 24x - 8$

$16x^4 + 16x^3 - 25x^2 - 15x + 12$

$16x^4 - 12x^3 - 30x^2 + 11x + 6$

$5x^4 - 4x^3 + 13x^2 + 4x - 3$

$20x^4 - 35x^3 + 47x^2 - 29x + 12$

$4x^4 - 6x^3 + 12x^2 - 9x + 4$

$10x^4 + 20x^3 + 13x^2 + 16x + 4$

$20x^4 - 5x^3 - 43x^2 + 4$

$5x^4 - 15x^3 + 29x^2 - 23x + 12$

$8x^4 - 28x^3 + 2x^2 + 33x + 10$

$15x^4 + 16x^3 - 8x^2 + 23x - 4$

$10x^4 - 27x^3 + 28x^2 - 5$

$4x^4 + 23x^3 + 4x^2 - 21x + 6$

$15x^4 - 7x^3 + 3x - 1$

$4x^4 - 2x^3 + 11x^2 - x + 10$

$12x^4 - 6x^3 + 17x^2 - 4x + 6$

$5x^4 + 15x^3 - 39x^2 + 24x - 4$

$10x^4 + 11x^3 + 24x^2 + 12x + 9$

$2x^4 + 13x^3 + 13x^2 - 25x + 5$

$25x^4 - 25x^3 + 21x^2 - 4x - 10$

$9x^4 - 12x^3 + 7x^2 - 2x + 3$

$3x^4 + 9x^3 - 14x^2 - 25x + 25$

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

$3x^4 + 9x^3 - 17x^2 + 10x - 2$

$6x^4 - 11x^3 + 2x^2 + 11x - 20$

$3x^4 + x^3 - 13x^2 + 16x - 6$

$2x^4 - 2x^3 - 13x^2 - 17x - 6$

$4x^4 - 2x^3 + 5x^2 - 2x + 1$

$20x^4 - 11x^3 - 5x^2 + 11x - 6$

$12x^4 + 14x^3 + 15x^2 + 7x + 12$

$5x^4 - 15x^3 + 19x^2 - 8x - 2$

$4x^4 + 15x^3 - 20x^2 - 25x - 6$

$15x^4 - 4x^3 + 8x^2 - x + 2$

$5x^4 - 9x^3 + 12x^2 - 7x + 3$

$2x^4 + 12x^3 - x^2 - 15x + 5$

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

$4x^4 + 4x^3 + 12x^2 + 2x + 5$

$10x^4 + 13x^3 + 25x^2 + 8x + 16$

$6x^4 - 4x^3 - 23x^2 + x + 15$

$10x^4 + 19x^3 + 29x^2 + 18x + 12$

$10x^4 - 17x^3 - 35x^2 - 45x - 25$

$15x^4 + 37x^3 + 26x^2 - 3x - 9$

$6x^4 - 13x^3 - 3x^2 + 11x + 2$

$12x^4 + 19x^3 + x^2 + 6x - 8$

$15x^4 - 3x^3 + 10x^2 + x - 5$

$15x^4 - 6x^3 - 14x^2 + 21x - 10$

2. 오차식의 인수분해

2.1 일계수 오차식

$$x^5+7x^4+13x^3+18x^2-25x+6$$
$$x^5+5x^4+5x^3+10x^2-24x+9$$
$$x^5-2x^4+8x^3-12x^2+15x-25$$
$$x^5+7x^4+9x^3-19x^2-22x+20$$
$$x^5-2x^4-13x^3-30x^2-20x-16$$
$$x^5-5x^4+2x^3+21x^2-19x-20$$
$$x^5-4x^4+11x^3-14x^2+11x+20$$
$$x^5+2x^4-x^3-7x^2-4x+5$$
$$x^5+2x^4-14x^3+2x^2+9x-3$$
$$x^5+4x^4+x^3-2x^2-12x-8$$
$$x^5-11x^3+7x^2+22x-20$$
$$x^5+2x^4-8x^3+x^2+18x-12$$
$$x^5+2x^4-11x^3-8x^2+6x+4$$
$$x^5+x^4-25x^3+21x^2+5x-5$$
$$x^5-3x^4-11x^3-14x^2+23x+10$$
$$x^5-9x^4+14x^3+28x^2-2x-8$$
$$x^5-5x^4+6x^3-28x^2+5x-15$$
$$x^5+x^4-3x^3-9x^2-5x+3$$
$$x^5+x^4-2x^3-17x^2+3x+4$$
$$x^5-3x^4-8x^3+13x^2+15x+10$$
$$x^5+6x^4+9x^3-4x^2-37x+20$$
$$x^5-x^4-4x^3-10x^2-17x-5$$
$$x^5+7x^4+20x^3+37x^2+35x+10$$
$$x^5+2x^4-x^3-x^2-8x+6$$
$$x^5+4x^4-5x^3+9x^2-4x+3$$
$$x^5+3x^4-2x^3-7x^2+x+2$$
$$x^5-2x^4-8x^3+8x^2-9x+2$$
$$x^5-7x^4+7x^3+18x^2+6x+10$$
$$x^5-7x^4+13x^3-3x^2-24x+16$$
$$x^5-2x^4+3x^3-7x^2+5x-10$$
$$x^5+8x^4+11x^3-18x^2+12x-8$$
$$x^5-4x^4+7x^2-4x+2$$
$$x^5+4x^4-x^3+7x^2-32x+20$$
$$x^5+x^4-6x^3+3x^2+14x-10$$
$$x^5-6x^4+12x^3-6x^2-9x+9$$
$$x^5-4x^4+x^3+6x^2-x+6$$
$$x^5-x^4-20x^3+13x^2-21x+4$$
$$x^5-7x^4+7x^3+25x^2-30x+8$$
$$x^5-x^4+5x^3-11x^2+7x-15$$
$$x^5-14x^3+13x^2-15x+3$$
$$x^5+5x^4-3x^3-20x^2+24x-8$$
$$x^5+6x^4+7x^3-x^2+18x+5$$
$$x^5+6x^4+9x^3+14x^2-16x+10$$
$$x^5-2x^4+x^3+7x^2-12x+9$$
$$x^5+5x^4+8x^3+14x^2-15$$
$$x^5+2x^4-6x^3-3x^2+16x-16$$
$$x^5-x^4-13x^3-6x^2+2x+6$$
$$x^5+5x^4+12x^3+14x^2+8x+5$$
$$x^5-3x^4-4x^3+6x^2+10x+25$$
$$x^5+2x^4-7x^3+4x^2+15x-12$$
$$x^5-x^4-12x^3+26x^2+6x-15$$
$$x^5-x^4+4x^3-5x^2+3x-6$$
$$x^5+6x^4-x^3-21x^2+13x-2$$
$$x^5+6x^4+6x^3-14x^2-19x-5$$
$$x^5+3x^4-14x^3-x^2+29x-10$$
$$x^5-3x^4-2x^3+8x^2-3$$
$$x^5-4x^4-5x^3-8x^2-3x-2$$
$$x^5+2x^4-25x^3-15x^2+40x+25$$
$$x^5-3x^3-16x^2-7x-20$$
$$x^5-5x^4-4x^3-2x^2-20x-15$$
$$x^5+x^4-13x^3+22x^2+35x+10$$
$$x^5-6x^4+9x^3-19x^2-30x-5$$
$$x^5+7x^4+x^3-34x^2+20$$
$$x^5-3x^4-10x^3-8x^2+4x+1$$
$$x^5-x^4-11x^3+7x^2+12x-20$$
$$x^5-7x^4+9x^3+8x^2+12x+12$$
$$x^5+3x^4-14x^3-16x^2-12x+3$$
$$x^5+9x^4+14x^3-28x^2-7x+3$$
$$x^5-2x^4+6x^3+x^2-x+15$$
$$x^5-6x^4+11x^3-28x^2+7x-10$$
$$x^5-2x^4+5x^3-6x^2+12x-16$$
$$x^5+7x^4+15x^3+20x^2-10x-25$$
$$x^5-4x^4-5x^3+11x^2+24x+5$$
$$x^5+5x^4-5x^3-21x^2-x+1$$
$$x^5-2x^4-3x^3+13x^2-8x-3$$
$$x^5+3x^4-8x^3-23x^2+2x+10$$
$$x^5-2x^4-17x^3-7x^2+5x+2$$
$$x^5-x^4-12x^3-15x^2+25x-6$$
$$x^5+x^4-11x^3+5x^2-3x+1$$
$$x^5+3x^4+2x^3+16x^2-15x+5$$
$$x^5+x^4-4x^3+x^2+5x-2$$
$$x^5-2x^4-11x^3-10x^2+16x+12$$
$$x^5+x^4-16x^3-6x^2-12x+8$$
$$x^5+2x^4+10x^3+8x^2+21x-10$$
$$x^5-4x^4+10x^3-9x^2+4x+10$$
$$x^5-3x^4+10x^3-17x^2+21x-20$$
$$x^5-6x^4+x^3+27x^2+6x-9$$
$$x^5-9x^4+25x^3-29x^2+29x-5$$
$$x^5+x^4+x^3+3x^2-12x-4$$
$$x^5+4x^4-2x^3-4x^2-8$$
$$x^5+4x^4+6x^3+8x^2+5x+12$$
$$x^5+5x^4+9x^3+2x^2-12x-12$$
$$x^5-9x^4+19x^3+4x^2+4x+1$$
$$x^5-7x^4+x^3+28x^2+24x+8$$
$$x^5+7x^3+3x^2+12x+9$$
$$x^5+8x^4+20x^3+12x^2-15x-15$$
$$x^5-10x^4+22x^3+11x^2+16x+16$$
$$x^5+6x^4+15x^3+31x^2+30x+5$$
$$x^5+4x^4+7x^3+x^2-20x+10$$
$$x^5-4x^4-11x^3+17x^2+13x+2$$
$$x^5-3x^4-3x^3+4x+4$$
$$x^5-5x^4+10x^3-4x^2-12x+15$$

$x^5+7x^4+9x^3+5x^2-4x+2$
$x^5-4x^4+x^3-4x^2+16x-4$
$x^5-5x^3+8x^2-3x-10$
$x^5+7x^4+19x^3+28x^2+18x+4$
$x^5+3x^4-4x^3-4x^2-2x-1$
$x^5-4x^3+10x^2-9x+5$
$x^5+5x^4-5x^3+29x-20$
$x^5+6x^4+10x^3+11x^2+x-1$
$x^5-9x^2-7x-15$
$x^5-8x^4+19x^3-17x^2+10x+10$
$x^5+x^4-4x^3-12x^2-13x+3$
$x^5-4x^4+3x^3-25x^2-10x-25$
$x^5-7x^4+11x^3+x^2+14x-10$
$x^5-9x^4+21x^3+5x^2-40x-20$
$x^5+x^4-2x^2-14x+8$
$x^5+3x^4-5x^3-11x^2-9x+15$
$x^5-2x^4-3x^3+15x^2-20x+25$
$x^5-25x^3-14x^2-21x-4$
$x^5-x^4-10x^3+12x+16$
$x^5-3x^4-5x^3+5x^2+6x+2$
$x^5+2x^4-6x^3+9x^2-2x+2$
$x^5+6x^4+3x^3-14x^2+17x-4$
$x^5+7x^4+16x^3+23x^2+18x+10$
$x^5+2x^4+5x^3+9x^2+6x+9$
$x^5-4x^4-14x^2-21x+5$
$x^5+2x^4-12x^3-12x^2+5x+25$
$x^5+4x^4-5x^3-11x^2+18x-9$
$x^5+4x^4-x^3+9x^2+3x+2$
$x^5-5x^4+7x^3-x^2-3x+5$
$x^5+x^4+3x^3-3x^2+2x-10$
$x^5-4x^4-7x^3+11x^2+22x-5$
$x^5+8x^4+9x^3-29x^2-7x+6$
$x^5-2x^4+x^3-8x^2-24x-8$
$x^5-7x^4+10x^3+6x^2+6x+9$
$x^5-x^4-7x^3-24x^2-12x-20$
$x^5+3x^4-8x^3+22x^2-18x+4$
$x^5-4x^4-9x^3+16x^2+20x+20$
$x^5-x^4+9x^3+16x+20$
$x^5+4x^4-5x^3-14x^2+27x-12$
$x^5+3x^4-10x^3-27x^2-18x-4$
$x^5+2x^4-13x^3-3x^2+16x-5$
$x^5+2x^4+9x^3+7x^2+15x-4$
$x^5+x^4-5x^3+2x^2+12x+4$
$x^5+4x^4-2x^3+5x-3$
$x^5+x^4+8x^3+10x^2+35x+25$
$x^5-9x^4+20x^3+7x^2-28x-12$
$x^5+7x^4+19x^3+21x^2-16$
$x^5+3x^4-8x^3-16x^2+24x+5$
$x^5+6x^4+x^3-21x^2-x+4$
$x^5+4x^4-11x^3-3x^2+8x+3$
$x^5-2x^4-11x^3+6x^2+9x+2$
$x^5+x^4-4x^3+10x^2-8x+5$
$x^5-2x^4-6x^3+19x^2-3x-15$
$x^5-2x^4-16x^3+15x^2+4x-4$
$x^5-5x^4+x^3-19x^2-6x-12$
$x^5-5x^4+3x^3+4x^2+6x+6$
$x^5-5x^4+6x^3-10x^2+21x-5$
$x^5+4x^4+6x^3+10x^2+7x+5$
$x^5+2x^4-x^3+18x^2+18x+4$
$x^5+3x^4-x^3+x^2-21x+15$
$x^5-x^3+3x^2-21x+20$
$x^5-2x^4-21x^3+21x^2+2x+5$
$x^5-9x^4+21x^3-8x^2+18x+5$
$x^5-3x^4-11x^3+16x^2+6x-8$
$x^5-x^4+2x^3-6x^2-3x-9$
$x^5-x^4-17x^3+11x^2-14x-10$
$x^5-x^4-15x^2-17x-10$
$x^5-5x^4+9x^3-23x^2+35x-15$
$x^5+8x^4+17x^3+3x^2-24x+4$
$x^5-8x^4+17x^3-21x^2+10x+15$
$x^5+2x^4-7x^3+7x^2-4x-1$
$x^5-10x^4+25x^3-2x^2+9x-2$
$x^5+x^4-2x^3-15x-25$
$x^5-9x^4+18x^3+17x^2-28x-20$
$x^5-2x^4-2x^3+5x^2-6x-8$
$x^5+9x^4+30x^3+47x^2+33x+10$
$x^5+x^4-5x^3+11x^2-9x+5$
$x^5-4x^4+9x^3-14x^2+15x-6$

2.2 일계수가 아닌 오차식

$8x^5-8x^4+16x^3+x^2+x+4$
$4x^5+17x^4-10x^3-42x^2+19x+10$
$8x^5-4x^4+4x^3+4x^2-12x+15$
$5x^5-20x^4-54x^3-25x^2+16$
$2x^5+2x^3+13x^2-11x+15$
$15x^5-8x^4+37x^2-11x-3$
$5x^5-22x^3+25x^2-15x+15$
$2x^5-3x^4-24x^3+9x^2+17x-6$
$9x^5-27x^4+11x^3+21x^2-15x-9$
$3x^5-x^4+10x^3-12x^2-17x-3$
$20x^5-2x^4+17x^3+7x^2-7x+1$
$20x^5-16x^4-2x^3+3x^2-2$
$4x^5-14x^4+17x^3-6x^2+6x-9$
$4x^5-3x^4+9x^3+31x^2-1$
$5x^5+16x^4-7x^3-x^2+3x-2$
$2x^5+3x^4+3x^3-2x^2-9x+5$
$10x^5-6x^4+18x^3-21x^2+17x-12$
$4x^5+11x^4-28x^3-3x^2-6x-8$
$25x^5-10x^4-23x^3-20x^2+15x+12$
$20x^5-7x^4-5x^3-3x^2+5x-2$
$4x^5+9x^4-3x^3+9x^2+4x-10$
$20x^5+3x^4+27x^3+12x^2+25x+12$
$20x^5-5x^4-61x^3+5x^2+21x-4$
$9x^5-6x^4+4x^3+11x^2-16x+10$
$20x^5+21x^4+44x^3+31x^2+28x+10$
$4x^5+11x^4-13x^3-15x^2+18x-12$
$25x^5-15x^4+42x^3-3x^2+13x+10$
$5x^5-9x^4+10x^3+34x^2-4x-15$
$6x^5+9x^4-13x^3+14x^2-9x+3$
$2x^5-14x^4+14x^3+11x^2+5x+3$
$10x^5-25x^3+7x^2+3x-1$
$3x^5+5x^4-7x^3-7x^2-x+3$
$2x^5+9x^3+x^2+13x+5$
$6x^5+23x^4+x^3-18x^2+26x-8$
$20x^5-45x^4+6x^3+40x^2-22x-15$
$5x^5-20x^4-5x^3-23x^2+2x+6$
$6x^5-27x^3-17x^2+23x+20$
$12x^5-15x^4+24x^3-4x^2+7x+6$
$9x^5-21x^4+34x^3-43x^2+23x-20$
$3x^5+5x^4-4x^3+7x^2-8x+6$
$6x^5+9x^4-20x^3+4x^2+9x-10$
$3x^5+x^4+14x^3-6x^2+14x-8$
$15x^5+11x^4-21x^3-2x^2-6x-6$
$2x^5+6x^4-19x^3-31x^2-27x-15$
$20x^5+31x^4+25x^3-5x^2-10x-6$
$8x^5+10x^4+14x^3-7x^2+18x-3$
$4x^5-11x^4-13x^3-7x^2+10x-5$
$15x^5-10x^4-13x^3+5x^2+22x-15$
$3x^5-2x^4+11x^3+3x^2+6x+9$
$10x^5-10x^4+23x^3-21x^2-5x+10$
$5x^5+9x^4+20x^3+22x^2-8x-8$
$2x^5-5x^4-22x^3+34x^2-29x+12$
$6x^5+14x^4+29x^3+23x^2+21x-5$
$3x^5+6x^4+7x^3-27x^2+20x-5$

$12x^5 - 28x^4 + 5x^3 - 4x^2 - 3x - 9$

$5x^5 + 15x^4 + 38x^3 + 46x^2 + 30x + 9$

$9x^5 + 12x^4 - 12x^3 + 10x^2 - 5x + 2$

$3x^5 - 3x^4 + 13x^3 - 8x - 10$

$5x^5 - 25x^4 + 3x^3 - 12x^2 + 8x - 12$

$10x^5 + 7x^4 - 38x^2 - 8x + 8$

$5x^5 + 16x^4 + 12x^3 + 17x^2 - 5x + 15$

$20x^5 + 33x^4 - 11x^3 - 2x^2 + 12x - 16$

$5x^5 + 18x^4 + 3x^3 - 25x^2 + 12x - 5$

$3x^5 + 7x^4 + 11x^3 + 2x^2 + 5x - 20$

$4x^5 + 11x^4 - 4x^3 - 23x^2 + 5x + 5$

$10x^5 - 31x^4 + 19x^3 + 15x^2 - 15x + 10$

$3x^5 + 11x^4 - 4x^3 - 20x^2 + 1$

$20x^5 - 12x^4 - 6x^3 + 21x^2 - 11x + 3$

$15x^5 + 5x^4 - 6x^3 + 27x^2 - 17x + 12$

$12x^5 - 11x^4 - 10x^2 - 50x - 25$

$4x^5 + 2x^4 - 25x^3 + 3x^2 + 11x + 20$

$5x^5 + 4x^4 + 5x^3 + 7x^2 + 3$

$3x^5 - 15x^4 + 7x^3 + 8x^2 + 12x + 20$

$8x^5 + 12x^4 + 14x^3 + 5x^2 + 8x + 16$

$12x^5 - 10x^4 - 16x^3 - 17x^2 - 32x - 15$

$4x^5 - 19x^4 + 13x^3 - 18x^2 + 5x - 6$

$16x^5 - 20x^4 - 24x^3 + 9x^2 + 25x + 4$

$15x^5 - 13x^4 - 26x^3 - 18x^2 - 24x - 9$

$15x^5 + 12x^4 - 18x^3 - 40x^2 + 5x + 25$

$6x^5 - 11x^3 - 31x^2 - 31x - 10$

$3x^5 + 11x^4 - 25x^3 + 28x^2 - 32x + 12$

$12x^5 - 4x^4 - 23x^3 + 13x^2 + x - 20$

$4x^5 + 3x^4 + 15x^3 + 21x^2 + 18x + 9$

$8x^5 - 22x^4 - 2x^3 + 11x^2 - 31x - 20$

$9x^5 + 3x^4 + 6x^3 + 20x^2 - 15x + 25$

$20x^5 + 7x^4 + 6x^3 - x^2 - 15x - 25$

$10x^5 - 8x^4 + 7x^3 - 14x^2 + x - 5$

$2x^5 + 3x^4 - 13x^3 - 24x^2 - 13x - 15$

$10x^5 - 10x^4 - 18x^3 - 7x^2 - 4x - 1$

$6x^5 + 4x^4 + 9x^3 + 6x^2 + 17x + 10$

$4x^5 + 18x^4 + 12x^3 - 15x^2 + 7x - 15$

$16x^5 + 16x^4 + 35x^3 - 6x^2 - 25$

$15x^5 - x^4 - 9x^3 - 1$

$15x^5 + 24x^4 + 43x^3 + 12x^2 + 3x - 20$

$25x^5 + 30x^4 - 5x^3 + 26x^2 - 4x + 8$

$8x^5 - 30x^4 + 33x^3 - 12x^2 - 10x + 8$

$16x^5 + 12x^4 + 26x^3 - 9x^2 - 3x - 20$

$6x^5 - 9x^4 - 25x^3 - 11x^2 + 2x + 2$

$10x^5 + 18x^4 + 21x^3 - 11x^2 - 12x - 15$

$20x^5 - 12x^4 + 3x^3 - 17x^2 - 9x - 6$

$16x^5 - 24x^4 + 9x^3 - 33x^2 - 5x + 12$

$5x^5 + 9x^4 + 3x^3 + 3x^2 - x - 3$

$6x^5 - x^4 - 21x^3 + 15x^2 - 12x - 5$

$4x^5 + 6x^4 - 6x^3 - 13x^2 - 3x + 3$

$6x^5 - 7x^4 + 6x^3 - 9x^2 + x - 6$

$12x^5 + 20x^4 - 5x^3 + x^2 - 3x - 12$

$3x^5 + 12x^4 - 14x^3 - 14x^2 + 15x - 10$

$16x^5 + 8x^4 - 39x^3 - 10x^2 + 5x - 4$

$3x^5 + 6x^4 + 8x^3 + 19x^2 + 4x + 10$

$15x^5 - 5x^4 - 17x^3 - 7x^2 + 2$

$12x^5 - 24x^4 + 17x^3 - 17x^2 - 13x + 15$

$3x^5 - 11x^4 + 19x^3 - 17x^2 + 9x + 3$

$8x^5 - 10x^4 - 16x^3 - 29x^2 - 4x + 6$

$20x^5 - 7x^4 - 48x^3 + 15x^2 + 22x - 5$

$5x^5 + 23x^4 + 6x^3 - 38x^2 - 12x + 8$

$4x^5 + 11x^4 + 10x^3 + 24x^2 + 12x + 16$

$25x^5 + 10x^4 - 30x^3 + 3x^2 + 5x - 1$

$9x^5 - 3x^4 + 6x^3 + 5x^2 + 3x - 4$

$15x^5 + 10x^4 - 3x^3 + 18x^2 - 5x + 4$

$5x^5 - 24x^4 + 24x^3 - 16x^2 + 25x - 5$

$2x^5 + 3x^4 - 11x^3 - 13x^2 + 15x + 12$

$6x^5 + 9x^4 - 16x^3 + 12x^2 + 9x - 2$

$12x^5 + 22x^4 + 29x^3 + 21x^2 + 13x + 3$

$6x^5 - 6x^4 - 9x^3 + 5x^2 + 3x - 1$

$10x^5 - 30x^4 + 5x^3 + 23x^2 + 9x + 1$

$20x^5 + 2x^4 - 47x^3 - 22x^2 + 11x + 12$

$25x^5 - 30x^4 + 10x^3 + 28x^2 - 7x - 5$

$10x^5 + 18x^4 + 37x^3 + 18x^2 + 4x - 15$

$25x^5 - 30x^4 - 7x^2 + 14x - 8$

$2x^5 - 3x^4 - 3x^3 - 11x^2 - 14x + 5$

$15x^5 - 11x^4 - 9x^3 + 16x^2 - 2x - 4$

$3x^5 - x^4 - 11x^3 + 16x^2 - 8x + 4$

$2x^5 + 9x^4 + 16x^3 + 20x^2 + 2x - 4$

$4x^5 - 13x^4 - 18x^3 + 16x^2 + 3x - 2$

$15x^5 + 11x^4 - 3x^3 - 23x^2 - 14x - 6$

$4x^5 - x^4 - 9x^3 - 17x^2 - 4x - 15$

$5x^5 + 12x^4 - 38x^3 - x^2 + 8x + 20$

$15x^5 + 6x^4 - 43x^3 - 9x^2 + 25$

$2x^5 - 10x^4 + x^3 + 7x^2 - 6x + 12$

$4x^5 - 17x^4 - 6x^3 - 15x^2 - 10x - 4$

$10x^5 + 19x^4 + 8x^3 - 7x^2 - 4x - 2$

$12x^5 + 16x^4 - 15x^3 - 9x^2 + 12x - 2$

$8x^5 - 20x^4 - 10x^3 + 16x^2 + 13x + 3$

$20x^5 - 40x^4 + 4x^3 + 31x^2 - 15x - 12$

$9x^5 - 3x^4 + 3x^3 + 4x^2 + 2x + 3$

$9x^5 + 3x^4 - 11x^3 + 36x^2 - 20x + 16$

$10x^5 - 13x^4 + 8x^3 - 15x^2 - x - 10$

$12x^5 - 5x^4 - 30x^3 - 8x^2 + 11x + 12$

$20x^5 + 5x^4 - 21x^3 - 9x^2 + 4x + 4$

$3x^5 - 4x^4 - 9x^3 + 6x^2 + x - 6$

$10x^5 - 26x^4 - 19x^2 - 7x - 12$

$5x^5 + 21x^4 + x^3 - 39x^2 - 15x + 5$

$4x^5 + 15x^4 + 5x^2 + 50x + 25$

$3x^5 + 3x^4 + 4x^2 - 3x + 1$

$2x^5 - 3x^4 - 13x^3 + 13x^2 + 15x + 10$

$5x^5 - 11x^4 + 4x^3 + 32x^2 - 28x + 16$

$20x^5 + 6x^4 - 31x^3 + 7x^2 + 7x - 5$

$12x^5 + 6x^4 + 10x^3 + 13x^2 + 7x + 1$

$5x^5 + 4x^4 + 11x^3 - 25x^2 + 9x - 10$

$6x^5 - 8x^4 - 19x^3 + 8x^2 + 8$

$15x^5 + 17x^4 + 15x^3 + 30x^2 + 2x + 12$

$20x^5 + 25x^4 + 35x^3 + 11x^2 + 9x - 2$

$10x^5 + 10x^4 - 9x^3 + 10x^2 + 16x + 15$

$8x^5 - 6x^4 - 25x^3 + 17x^2 + 21x - 10$

$4x^5 - 9x^4 - 10x^3 - 14x^2 + 3x + 2$

$8x^5 - 14x^4 + 17x^3 - 32x^2 + 29x - 10$

$4x^5 + 6x^4 + 5x^3 + 6x + 4$

$8x^5 + 2x^4 - 17x^3 + 6x^2 + 8x - 5$

$10x^5 + 22x^4 + 27x^3 + 27x^2 + 28x + 12$

$4x^5 + 20x^4 - 11x^3 + 5x^2 - 20x - 25$

$3x^5 + 4x^4 - 18x^3 - 21x^2 + 15x + 5$

$5x^5 + 13x^4 - 2x^3 - 10x^2 - 16x - 5$

$5x^5 + 16x^4 + 27x^3 + 21x^2 + 17x + 4$

$8x^5 + 14x^4 - 8x^3 + 5x^2 + 8x - 2$

$6x^5 - 10x^4 - 11x^3 + 30x^2 - 2x - 15$

$10x^5 + 5x^4 + 11x^3 - 13x^2 - 14x - 12$

$5x^5 + 10x^4 - 45x^3 + 8x^2 + 19x + 10$

$5x^5 + 15x^4 - 8x^3 + x^2 + 16x + 6$

$12x^5 + 17x^4 + 10x^3 + 20x^2 - 4x - 16$

$5x^5 - 28x^4 + 9x^3 - 18x^2 + 12x + 8$

3. 육차식의 인수분해

3.1 일계수 육차식 1형

$$x^6+3x^5+9x^4+14x^3+9x^2+19x-15$$
$$x^6+8x^5+18x^4+5x^3-11x^2-3x-4$$
$$x^6-10x^5+24x^4+4x^3+5x^2+4x-12$$
$$x^6+9x^4+4x^3+20x^2+17x+3$$
$$x^6+3x^5-5x^4+12x^3+18x^2+x-2$$
$$x^6+3x^5-16x^4+11x^3-10x+5$$
$$x^6-4x^5+5x^4-9x^3-6x^2-11x-6$$
$$x^6-x^5-17x^3-6x^2-10x+12$$
$$x^6-3x^5-19x^4+11x^3+50x^2-20$$
$$x^6+5x^5+6x^4+15x^3-16x^2-25$$
$$x^6-3x^5-12x^4+29x^3+16x^2-30x-15$$
$$x^6-4x^4-16x^3-8x^2-4x+15$$
$$x^6-3x^5-3x^4-3x^3-10x^2-10$$
$$x^6+4x^5+4x^4+3x^3-4x^2+2x-4$$
$$x^6-17x^3-20x^2-4x+16$$
$$x^6+7x^5+16x^4+4x^3-31x^2-23x+10$$
$$x^6+9x^5+15x^4-18x^3+6x^2+10x-8$$
$$x^6-8x^4+22x^3-5x^2-20x+25$$
$$x^6+x^5-13x^4+7x^3+11x^2-27x+15$$
$$x^6+3x^5-18x^4-23x^3+30x^2+22x-5$$
$$x^6-9x^5+12x^4+35x^3+21x^2+14x-8$$
$$x^6+4x^5+9x^4+7x^3-6x^2-21x-20$$
$$x^6-5x^5+8x^4-2x^3-4x^2-5x-2$$
$$x^6-x^5-5x^4-7x^3-23x^2-31x-15$$
$$x^6-9x^5+14x^4+34x^3-20x^2-16x+8$$
$$x^6+2x^5-15x^4+42x^3-23x^2+1$$
$$x^6+2x^5-16x^4-27x^3-28x^2-7x+5$$
$$x^6+2x^5-13x^4-21x^3-14x^2-9x+12$$
$$x^6+4x^5+2x^4-3x^3-6x^2+26x-20$$
$$x^6-8x^5+16x^4-14x^3-x^2-5x+2$$
$$x^6-3x^5+2x^4-16x^3+15x^2-10x+25$$
$$x^6+4x^5+x^4+3x^3+20x^2-14x+20$$
$$x^6+6x^5+10x^4-6x^3-30x^2-10x+25$$
$$x^6-25x^4-34x^3-16x^2+9$$
$$x^6-4x^5+x^4-24x^3+29x^2+16x-16$$
$$x^6+3x^5-3x^4-15x^3-3x^2+21x+5$$
$$x^6+8x^5+18x^4+5x^3-4x^2+17x-15$$
$$x^6+8x^5+16x^4+8x^3+23x^2+16$$
$$x^6-4x^5-3x^4+14x^3-x^2-6x-8$$
$$x^6-3x^5-6x^4+x^3+13x^2+6x+12$$
$$x^6-x^4-10x^3+x^2+2x+15$$
$$x^6+6x^5+13x^4+13x^3-4x-2$$
$$x^6-6x^5+9x^4+x^3-28x^2-25x-6$$
$$x^6-x^5-22x^4+19x^3-21x^2+8x-4$$
$$x^6-9x^5+16x^4+17x^3+4x^2+2x-1$$
$$x^6+5x^5+9x^4+14x^3-3x^2+3x-9$$
$$x^6-3x^5-17x^4+13x^3+17x^2-19x+5$$
$$x^6+7x^5+6x^4-8x^3+28x^2-12x+8$$
$$x^6-6x^5+6x^4-11x^3+18x^2-3x+9$$
$$x^6-7x^5+11x^4-10x^3+22x^2-x+4$$
$$x^6-6x^5+9x^4-10x^3-18x^2+4x-15$$
$$x^6-10x^5+27x^4-5x^3-28x^2+7x+6$$
$$x^6+3x^5+4x^4+2x^3+12x^2+5x-12$$
$$x^6-4x^5+2x^4-2x^3-15x^2+2x-8$$
$$x^6+7x^4+9x^3+12x^2+32x+20$$
$$x^6+8x^5+19x^4+19x^3-24x^2+15x-10$$
$$x^6-9x^5+30x^4-39x^3-x^2+30x+8$$
$$x^6-3x^5-x^4+8x^3-4x^2-9x-2$$
$$x^6+x^5-22x^4+14x^3-9x^2+5x+2$$
$$x^6-6x^5+5x^4+6x^3+18x^2+12x+9$$
$$x^6-3x^4+14x^3+8x^2+24x+16$$
$$x^6-x^5+7x^4-6x^3+8x^2-4x-16$$
$$x^6-2x^5-8x^4+31x^3-32x^2+12x+10$$
$$x^6-4x^5-9x^4+27x^3-16x^2+7x-2$$
$$x^6-6x^5+3x^4+10x^3-20x^2-6x+15$$
$$x^6-x^5-17x^4+24x^3-x^2+2x+2$$
$$x^6+9x^5+25x^4+18x^3-6x^2+10x-8$$
$$x^6+2x^5-11x^4+17x^3-2x^2-5x+6$$

$$x^6+3x^5-10x^4-8x^3-13x^2-3x-2$$
$$x^6-10x^5+28x^4-13x^3-14x^2-7x-3$$
$$x^6-34x^4-4x^3-5x^2-7x-6$$
$$x^6-2x^5-6x^4-18x^3-5x^2-8x+3$$
$$x^6-4x^5-6x^4+19x^3+12x^2-14x-4$$
$$x^6-x^5+9x^4-3x^3+16x^2+8x-12$$
$$x^6-8x^5+9x^4+30x^3+2x^2+5x-15$$
$$x^6-8x^5+20x^4-18x^3-5x^2+6x-12$$
$$x^6-4x^5-x^4+4x^3-20x^2-5x-5$$
$$x^6-4x^5-5x^4+31x^3-39x^2+12x+10$$
$$x^6+x^5+5x^4+6x^3+18x^2+29x+10$$
$$x^6-x^5+8x^3+10x^2+16x+8$$
$$x^6-7x^5+14x^4-7x^3-19x^2+2$$
$$x^6+x^5-14x^4+24x^3+x^2-10x+3$$
$$x^6-4x^5+x^4+3x^3+x^2+8x-4$$
$$x^6+3x^5+6x^4+8x^3+22x^2-35x+10$$
$$x^6+3x^5+12x^3-31x^2+5x+2$$
$$x^6+x^5-21x^4-9x^3-5x^2+x-12$$
$$x^6+3x^5+x^4+4x^3-5x^2-5x+25$$
$$x^6+5x^5+9x^4+7x^3-8x^2+6x-8$$
$$x^6+9x^5+17x^4-14x^3+3x^2-8x+2$$
$$x^6+8x^5+11x^4-26x^3-27x^2-10x-5$$
$$x^6-x^5-10x^4-3x^3-10x^2-20x+25$$
$$x^6+x^5-10x^4-8x^3+10x^2+29x+12$$
$$x^6-8x^5+16x^4+7x^3-44x^2+4x+12$$
$$x^6-4x^5+10x^4-21x^3+22x^2-22x+8$$
$$x^6+5x^5+13x^4+11x^3-10x^2-28x+16$$
$$x^6+x^5-25x^4-9x^3-6x^2-22x+10$$
$$x^6-5x^5-7x^4+31x^3-5x^2-21x+9$$
$$x^6-2x^5-9x^4+x^3-12x^2+4x-4$$
$$x^6-5x^5+4x^4-12x^3+8x^2+11x-4$$
$$x^6+x^5-x^4-16x^3+7x^2-5x+5$$
$$x^6+6x^5-26x^3+18x^2+8x-15$$
$$x^6-6x^5+4x^4+10x^3+21x^2+14x+4$$
$$x^6-3x^5-3x^4+18x^2+19x+10$$
$$x^6-x^5+4x^4+5x^3-4x^2+16x+4$$
$$x^6-9x^5+18x^4+17x^3-48x^2-10x+25$$
$$x^6-2x^5-4x^4-3x^3+30x^2+2x-20$$
$$x^6-6x^5+5x^4+2x^3-14x^2-14x-4$$
$$x^6-6x^5+22x^3+28x^2+8x-8$$
$$x^6-x^5+x^4+2x^2-11x-12$$
$$x^6-2x^5-5x^4-17x^3+14x^2-3x+4$$
$$x^6+x^5-20x^4-6x^3+x^2+8x-3$$
$$x^6-7x^5+15x^4-23x^3+12x^2+2x-2$$
$$x^6+x^5-6x^4-10x^2+17x+12$$
$$x^6-3x^5-3x^4+12x^2+15x+20$$
$$x^6+x^5-18x^4+19x^3+16x^2-28x+15$$
$$x^6+5x^5+6x^4-6x^3-22x^2-20x-8$$
$$x^6-8x^5+21x^4-22x^3+12x^2-11x-3$$
$$x^6+x^5-20x^4+8x^3+30x^2-7x-12$$
$$x^6+4x^5-3x^4+11x^3-18x^2+20x-10$$
$$x^6-x^4-9x^3-6x^2+7x+20$$

3.2 일계수 육차식 2형

$$x^6+8x^5+8x^4-52x^3-43x^2+140x-50$$
$$x^6+2x^5-21x^4-7x^3-84x^2+65x+20$$
$$x^6-3x^4+14x^3-13x^2+46x-60$$
$$x^6-2x^5-3x^4-31x^3-42x^2-61x-30$$
$$x^6+x^5-6x^4-11x^3+5x^2+18x+6$$
$$x^6-x^5-x^4+20x^3-44x^2+64x-48$$
$$x^6-4x^5-8x^4-4x^3+62x^2+38x+5$$
$$x^6+3x^5+7x^4+17x^3+15x^2+35x+12$$
$$x^6-x^5+2x^4-13x^3-3x^2-18x+8$$
$$x^6-9x^5+16x^4-9x^3+120x^2+95x-25$$
$$x^6+9x^5+30x^4+45x^3+26x^2-3x-3$$
$$x^6+11x^5+37x^4+18x^3-95x^2-85x+25$$
$$x^6-12x^4-8x^3+22x^2+22x+5$$
$$x^6+3x^5-x^4+x^3-13x^2+15x+60$$
$$x^6+x^5-14x^4-3x^3-45x^2-18x+18$$
$$x^6+7x^5+21x^4+36x^3+37x^2+13x-15$$
$$x^6+6x^5+6x^4+11x^3-26x^2-46x+20$$
$$x^6-x^5-18x^4+3x^3+62x^2+31x-15$$
$$x^6-6x^5+10x^4-9x^3+22x^2-18x+4$$
$$x^6-8x^5+12x^4+36x^3-67x^2-60x+50$$
$$x^6+6x^5+3x^4-12x^3-3x^2-48x-10$$
$$x^6-2x^5+5x^4-4x^3+7x^2-2x+3$$
$$x^6-4x^5+2x^4-2x^3-6x^2-12x-9$$
$$x^6-x^5+13x^3-21x^2+32x+16$$
$$x^6-11x^5+38x^4-31x^3-41x^2+18x+6$$
$$x^6-8x^4+18x^3-18x^2+18x-9$$
$$x^6-2x^5-15x^4+46x^3-60x^2+28x-4$$
$$x^6-4x^4+9x^3+2x^2+6x-8$$
$$x^6+7x^5+9x^4-21x^3-79x^2-73x-12$$
$$x^6-7x^5+10x^4-12x^3+23x^2+27x+6$$
$$x^6+5x^5-16x^4-74x^3+41x^2+17x-6$$
$$x^6-8x^5+14x^4+33x^3-128x^2+130x-40$$
$$x^6+3x^5-20x^4-71x^3-15x^2+42x+18$$
$$x^6+2x^5+10x^4+13x^3+30x^2+20x+24$$
$$x^6-x^5-3x^4+19x^3-43x^2+51x-12$$
$$x^6+4x^5-22x^4-76x^3+66x^2+36x-27$$

$$x^6 - 3x^5 - x^4 + 30x^3 - 74x^2 + 84x - 40$$
$$x^6 + x^5 - 22x^4 - x^3 + 83x^2 + 16x - 60$$
$$x^6 + 3x^5 - 13x^4 - 30x^3 + 13x^2 + 3x - 1$$
$$x^6 - 4x^5 - 21x^4 + 72x^3 + 31x^2 - 28x - 6$$
$$x^6 - 6x^5 - 4x^4 + 60x^3 - 92x^2 + 6x + 5$$
$$x^6 + 6x^5 + 7x^4 + 12x^3 + 49x^2 - 60x - 50$$
$$x^6 - 8x^5 + 22x^4 - 48x^3 + 37x^2 - 32x - 20$$
$$x^6 - 4x^5 + 11x^4 - 31x^3 + 26x^2 - 55x - 20$$
$$x^6 - 4x^5 - 20x^4 + 97x^3 - 66x^2 - 28x + 24$$
$$x^6 - 5x^5 - 8x^4 + 17x^3 + 89x^2 + 58x + 8$$
$$x^6 - 9x^5 + 24x^4 - 11x^3 - 49x^2 + 74x + 60$$
$$x^6 - 12x^5 + 49x^4 - 75x^3 + 10x^2 + 57x + 10$$
$$x^6 + 10x^5 + 32x^4 + 24x^3 - 48x^2 - 70x - 15$$
$$x^6 - x^5 - 10x^4 - 13x^3 - 26x^2 + 15x + 9$$
$$x^6 + 5x^5 + 8x^4 - x^3 - 29x^2 - 44x - 30$$
$$x^6 + 7x^5 + 12x^4 - x^3 - 44x^2 - 33x - 5$$
$$x^6 + 9x^5 + 12x^4 - 55x^3 - 84x^2 + 9x + 27$$
$$x^6 - 3x^5 - 12x^4 + 29x^3 + 3x^2 - 18x - 4$$
$$x^6 - 5x^5 + x^4 + 3x^3 + 22x^2 + 22x + 4$$
$$x^6 + 7x^5 - 55x^3 - 7x^2 + 54x - 18$$
$$x^6 + 5x^5 + 13x^4 + 10x^3 - 23x^2 - 75x - 75$$
$$x^6 + 8x^5 + 23x^4 + 42x^3 + 45x^2 - 26x - 30$$
$$x^6 - x^5 - 13x^4 + 46x^3 - 61x^2 + 47x - 15$$
$$x^6 - 14x^5 + 67x^4 - 117x^3 + 22x^2 + 55x + 10$$
$$x^6 - 4x^5 - x^4 + 12x^3 - x^2 - 8x - 2$$
$$x^6 + 10x^5 + 27x^4 + 12x^3 - 18x^2 - 28x + 16$$
$$x^6 + x^5 + 3x^4 + 23x^3 - 17x^2 + 69x - 20$$
$$x^6 - 2x^5 + 5x^4 - 12x^3 + 19x^2 - 50x - 25$$
$$x^6 + 7x^5 + 4x^4 - 45x^3 - 48x^2 + 27x + 27$$
$$x^6 + x^5 - 6x^4 - 7x^3 - 9x^2 - 8x - 2$$
$$x^6 + 9x^5 + 34x^4 + 69x^3 + 58x^2 - 15x - 75$$
$$x^6 + x^5 - 35x^4 - 56x^3 + 145x^2 + 55x - 75$$
$$x^6 - 2x^5 + 2x^4 - 15x^3 - 8x^2 - 8x - 40$$
$$x^6 + 2x^5 - 7x^4 - 7x^3 + 16x^2 + 39x - 60$$
$$x^6 - 8x^5 + 14x^4 + 26x^3 - 70x^2 - 20x + 75$$
$$x^6 + 6x^5 - 4x^4 - 18x^3 + 118x^2 - 48x + 5$$
$$x^6 - x^5 - 13x^4 + 20x^3 + 25x^2 - 51x + 15$$
$$x^6 + x^5 - 10x^4 - 11x^3 + 22x^2 + 17x - 15$$
$$x^6 - 14x^5 + 63x^4 - 78x^3 - 67x^2 + 36x - 4$$
$$x^6 - 5x^5 - 9x^4 + 15x^3 + 41x^2 + 45x + 20$$
$$x^6 + 5x^5 - 14x^4 - 51x^3 + 14x^2 + 25x + 5$$
$$x^6 - 4x^5 + x^4 - 12x^3 - 2x^2 - 16x - 8$$
$$x^6 - 8x^5 + 8x^4 + 52x^3 - 58x^2 - 110x + 25$$
$$x^6 + 6x^5 - 2x^4 - 36x^3 + 22x^2 + 18x - 5$$
$$x^6 + 2x^5 - 9x^4 - 41x^2 - 118x - 60$$
$$x^6 + 2x^5 - 16x^4 - 24x^3 + 130x - 75$$
$$x^6 - 9x^5 + 29x^4 - 46x^3 + 30x^2 + 28x - 24$$
$$x^6 + 2x^5 - 21x^4 - 18x^3 + 84x^2 - 8x - 32$$
$$x^6 - 3x^5 + 5x^4 + 9x^3 - 47x^2 + 105x - 100$$
$$x^6 - 7x^5 + 7x^4 + 39x^3 - 98x^2 + 38x + 40$$
$$x^6 + 2x^5 - 5x^4 + 10x^3 - 21x^2 + 38x - 30$$
$$x^6 - 8x^5 + 26x^4 - 42x^3 + 31x^2 - 2x - 10$$
$$x^6 - x^5 - 14x^4 + 32x^3 - 52x^2 + 36x - 8$$
$$x^6 - x^5 - 18x^4 + 11x^3 + 66x^2 + 35x + 5$$
$$x^6 + 4x^5 + 14x^4 + 36x^3 + 70x^2 + 100x + 125$$
$$x^6 - 7x^5 + 20x^4 - 27x^3 - 11x^2 + 70x - 100$$
$$x^6 + 8x^5 + 13x^4 - 20x^3 - 36x^2 + 8x + 12$$
$$x^6 - x^5 - 7x^4 + 15x^3 - 61x^2 + 13x + 10$$
$$x^6 + 9x^5 + 9x^4 - 67x^3 - 35x^2 + 185x - 100$$
$$x^6 - 3x^5 - 32x^4 + 101x^3 + 72x^2 - 91x + 15$$
$$x^6 - 5x^5 - 13x^4 + 38x^3 + 131x^2 + 43x - 15$$
$$x^6 - 3x^5 - 12x^4 + 14x^3 + 73x^2 + 17x - 10$$
$$x^6 + 10x^5 + 27x^4 - 12x^3 - 115x^2 - 60x + 50$$
$$x^6 - 3x^5 - x^4 + 4x^3 + 17x^2 - 9x - 45$$
$$x^6 - 5x^5 + x^4 + 18x^3 - 13x^2 - 9x + 3$$
$$x^6 - 2x^5 + 5x^4 - 7x^3 + 16x^2 - 5x + 12$$
$$x^6 - 8x^5 + 25x^4 - 59x^3 + 76x^2 - 71x + 12$$
$$x^6 + x^5 - 5x^4 + x^3 + 21x^2 + 3x - 36$$
$$x^6 - 4x^5 - 12x^4 + 24x^3 + 36x^2 - 20x - 5$$
$$x^6 + 10x^5 + 40x^4 + 90x^3 + 120x^2 + 90x + 27$$
$$x^6 - 8x^5 + 8x^4 + 45x^3 - 38x^2 - 92x - 16$$
$$x^6 + x^5 - 23x^4 - 33x^3 - 143x^2 - 23x + 10$$
$$x^6 - 5x^5 - 4x^4 + 31x^3 + 19x^2 - 42x - 30$$
$$x^6 - 6x^5 + 7x^4 - 6x^3 - 7x^2 + 20x + 12$$
$$x^6 + 7x^5 - 7x^4 - 103x^3 - 95x^2 - 9x + 6$$
$$x^6 + 7x^5 + 5x^4 - 40x^3 - 39x^2 + 57x + 45$$
$$x^6 - 3x^5 - 7x^4 + 40x^3 - 94x^2 + 84x - 24$$
$$x^6 - 7x^5 + 11x^4 - x^3 - 11x^2 + 31x - 6$$
$$x^6 + 9x^5 + 8x^4 - 67x^3 - 13x^2 + 120x - 60$$
$$x^6 + 5x^5 + 3x^4 - 20x^3 - 43x^2 + 15x + 75$$
$$x^6 + 5x^5 - 8x^4 - 46x^3 - 83x^2 - 43x + 30$$
$$x^6 + 2x^5 - 2x^4 + 34x^3 - 39x^2 + 104x - 60$$
$$x^6 - 2x^5 - 5x^4 + 7x^2 + 10x + 4$$
$$x^6 - 7x^5 + 18x^4 - 31x^3 + 14x^2 + 45x - 75$$

3.3 일계수 육차식 3형

$$x^6 + 7x^5 + 14x^4 + 12x^3 + 7x^2 - 2x - 3$$
$$x^6 + 3x^5 + 2x^4 + 23x^3 + 22x^2 + 8x + 1$$
$$x^6 + 4x^5 - 4x^4 + 32x^3 - 7x^2 - 22x + 8$$
$$x^6 + 3x^5 - 20x^4 - 17x^3 + 12x^2 - 5x + 15$$

$x^6 + 7x^5 + 17x^4 + 13x^3 - 7x^2 - 9x - 2$

$x^6 + 4x^4 - 2x^3 - 2x^2 + 6x - 5$

$x^6 - x^5 - 5x^4 - 10x^3 - 5x^2 - x - 15$

$x^6 + 9x^5 + 19x^4 + 2x^3 + x^2 - 22x + 8$

$x^6 + 8x^5 + 14x^4 - 5x^3 + 16x^2 + 18x + 4$

$x^6 + x^5 + 6x^4 - 2x^3 + 5x^2 - 23x - 20$

$x^6 - 6x^5 + 6x^4 + 7x^3 - 23x^2 + 13x - 2$

$x^6 + 4x^5 + 2x^4 + x^3 + 6x^2 + 10x + 4$

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

$x^6 + 8x^5 + 8x^4 - 30x^3 + 2x^2 + 6x + 3$

$x^6 + x^4 - x^3 - 2x^2 - 3x + 12$

$x^6 - 4x^5 - 10x^3 - 12x^2 - 26x - 15$

$x^6 - 8x^5 + 16x^4 - 10x^3 + 3x^2 - 18x - 8$

$x^6 - 2x^5 - 6x^4 - 2x^3 + 5x^2 + 9x + 4$

$x^6 - 9x^5 + 22x^4 - 9x^3 + x^2 + 18x - 8$

$x^6 - 3x^5 + 8x^4 - 4x^3 + 2x^2 + 19x + 10$

$x^6 - 8x^5 + 17x^4 - 11x^3 + 21x^2 + 10x - 8$

$x^6 + 2x^5 + 7x^4 + 3x^3 + 10x^2 - 7x + 20$

$x^6 + 6x^5 + 10x^4 + 6x^3 + x^2 - 12x + 4$

$x^6 + 2x^5 - 4x^4 - 15x^3 - 9x^2 + 9x + 9$

$x^6 + 6x^5 + 3x^4 - 16x^3 + 11x - 15$

$x^6 + 3x^4 + 4x^3 + 13x^2 - 9$

$x^6 + 3x^4 + 10x^3 - 3x - 1$

$x^6 - 7x^4 - 22x^3 + 6x^2 + 2x - 4$

$x^6 + 4x^5 + 13x^4 + 18x^3 + 18x^2 - 4x - 8$

$x^6 + 4x^5 + 4x^4 + x^3 - 8x^2 - 10x - 4$

$x^6 - x^5 - 2x^4 + 9x^2 + 6x + 2$

$x^6 - 4x^5 - 8x^4 - 7x^3 + x^2 + 5x + 3$

$x^6 - 8x^5 + 10x^4 + 29x^3 - 9x^2 - 23x - 6$

$x^6 + 6x^5 - 28x^3 + 12x^2 - 10x + 25$

$x^6 + 2x^5 - 14x^4 - 6x^3 + 6x^2 - 12x + 9$

$x^6 - 5x^5 + 14x^4 - 21x^3 + 14x^2 + 25$

$x^6 + 3x^5 - 2x^4 - 6x^3 - 21x^2 - 28x - 10$

$x^6 - 5x^5 - 10x^4 + 30x^3 - 5x^2 + 25$

$x^6 + 6x^5 + 6x^4 + 10x^3 - 22x^2 + x + 2$

$x^6 - 5x^5 + 2x^4 + x^3 - 18x^2 + 15x - 10$

$x^6 - x^5 + x^4 - 9x^3 - 6x^2 - 12x - 9$

$x^6 - 7x^5 + 10x^4 - 9x^3 - 4x^2 - 25x - 15$

$x^6 - x^5 + 3x^4 - 7x^3 + 11x^2 - 4x - 2$

$x^6 + 8x^5 + 14x^4 - 2x^3 - 16x^2 + 34x - 15$

$x^6 - 3x^5 - 20x^3 + 45x^2 - 25$

$x^6 - x^5 - 18x^4 + x^3 + 5x^2 - 14x - 4$

$x^6 - 8x^5 + 12x^4 + 9x^3 + 12x^2 - 10x - 4$

$x^6 - 4x^5 + x^4 - 13x^3 + 16x^2 + 13x + 2$

$x^6 + x^5 + 2x^4 + 5x^3 - 10x^2 + 4x - 8$

$x^6 + x^5 - 3x^4 - 2x^3 + 7x^2 - 10$

$x^6 + 6x^5 + 11x^4 + 11x^3 - x^2 - x + 3$

$x^6 - 7x^5 + 5x^4 + 21x^3 + 7x^2 + 22x + 5$

$x^6 + 9x^5 + 18x^4 - 9x^3 + 27x - 10$

$x^6 - 5x^5 + 5x^4 - 7x^3 - 8x^2 + 4x + 3$

$x^6 - 11x^4 - 14x^3 + 8x^2 - 9x - 15$

$x^6 - 5x^5 + 5x^4 + 11x^3 - 18x^2 - 28x - 16$

$x^6 - 2x^5 - 25x^4 + 7x^3 + 11x^2 + 25$

$x^6 + 6x^5 + 13x^4 + 13x^3 - 6x^2 - 13x + 4$

$x^6 - 3x^5 - 7x^4 + 12x^3 + 17x^2 - 15x - 15$

$x^6 - x^5 - 19x^4 - 16x^3 - 13x^2 - 16x - 6$

$x^6 - 7x^5 + 12x^4 + 2x^3 - 5x^2 + 3x + 2$

$x^6 - 2x^5 - 5x^4 - 9x^3 - 6x^2 + 19x + 12$

$x^6 + 5x^5 + 12x^4 + 11x^3 + x^2 - 6x + 8$

$x^6 - 3x^5 - 3x^4 - 21x^3 + 15x^2 - 25x + 10$

$x^6 + x^5 - 21x^4 - 32x^3 - 10x^2 + 10x + 6$

$x^6 + 9x^5 + 18x^4 - 3x^3 + 16x^2 - 17x + 3$

$x^6 - 2x^5 - 21x^4 + 11x^3 + 20x^2 - 27x + 12$

$x^6 + 3x^5 - 3x^4 + 11x^3 + 5x^2 - 6x + 1$

$x^6 + 3x^5 + 18x^3 - 18x^2 - x + 1$

$x^6 - 3x^4 - 3x^3 - 13x^2 + 7x + 5$

$x^6 + 2x^5 - 11x^4 + 4x^3 - x^2 - 25x - 10$

$x^6 + 4x^5 + 5x^4 + 21x^3 + 22x^2 - 3x - 2$

$x^6 - 7x^5 + 13x^4 - 6x^3 + 7x^2 - 5x + 1$

$x^6 - 4x^5 + 11x^4 - 15x^3 + 15x^2 - 5x + 3$

$x^6 + x^5 - 22x^4 + 24x^3 - 21x^2 - 7x + 12$

$x^6 - x^5 - 10x^4 + 14x^3 - x^2 - 18x + 20$

$x^6 - 3x^5 - 4x^4 - 7x^3 - 10x^2 - 4x - 5$

$x^6 - 5x^5 + 9x^3 + 8x^2 + 11x - 3$

$x^6 - 6x^5 + 21x^3 + 4x + 16$

$x^6 + x^5 - x^4 - 4x^3 - 23x^2 - 16$

$x^6 - 11x^4 + 2x^3 + 9x^2 + 4x - 2$

$x^6 + 2x^5 - 10x^4 - 12x^2 + 24x - 8$

$x^6 + 2x^5 - 13x^4 - 9x^3 - 18x^2 - 21x - 6$

$x^6 + 5x^5 + 14x^4 + 20x^3 + 22x^2 + 13x + 15$

$x^6 + 2x^5 - 10x^4 - 5x^3 + 5x^2 + 7x + 2$

$x^6 + x^5 - 27x^4 - 12x^3 + 39x^2 + 10x - 8$

$x^6 - 3x^5 - 3x^4 - 20x^3 - 19x^2 + 17x - 15$

$x^6 - 4x^5 - x^4 - 16x^3 + 8x^2 - 16$

$x^6 - 11x^4 - 12x^3 - 2x^2 + 3x + 1$

$x^6 + 7x^5 + 10x^4 - 9x^3 - 6x^2 - x + 1$

$x^6 + 6x^5 + 6x^4 - 19x^3 - 39x^2 - 15x + 5$

$x^6 - 2x^5 - 7x^4 + x^3 + 9x^2 + 10x - 5$

$x^6 - 3x^5 - 13x^4 - 16x^3 + 16x^2 - 13x - 20$

$x^6 - 23x^4 + 14x^3 - 19x^2 + 3x + 2$

$x^6 - 9x^5 + 19x^4 + 7x^3 - x^2 - 22x - 10$

$x^6 + 4x^5 + 5x^4 + 6x^3 + 10x^2 + 11x + 3$

$x^6 + 6x^5 + 5x^4 - 19x^3 - 20x^2 + 11x + 4$

$x^6 - 8x^5 + 13x^4 + 16x^3 - 18x^2 - 4x + 6$

$$x^6 - 7x^5 + 17x^4 - 29x^3 + 7x^2 + 15x - 6$$
$$x^6 - 6x^5 + 15x^4 - 26x^3 + 13x^2 - 8x - 5$$
$$x^6 - 3x^5 - 11x^4 - 15x^3 - 2x^2 + 6x + 4$$
$$x^6 - 9x^4 + 18x^3 - 11x^2 - 6x + 6$$
$$x^6 - 4x^5 - 6x^4 - 21x^3 - 12x^2 - 4x + 6$$
$$x^6 + 8x^5 + 14x^4 - 7x^3 - 6x^2 - 20x - 4$$
$$x^6 + 2x^5 + x^4 + 5x^3 - 7x^2 - 12x + 20$$
$$x^6 + 4x^5 + 3x^4 - 10x^3 - 23x^2 + 2x - 10$$
$$x^6 + 2x^5 - 9x^4 + 9x^3 - 20x^2 - 25x - 6$$
$$x^6 - 5x^5 - 22x^3 - 8x^2 + 18x + 8$$
$$x^6 - 5x^5 + 5x^4 - 17x^3 + 7x^2 + 12x + 12$$
$$x^6 + x^5 - 15x^4 - 25x^3 - 5x^2 + 6x + 2$$
$$x^6 + 9x^5 + 16x^4 - 16x^3 + 14x^2 + 4x - 4$$
$$x^6 - 5x^5 - x^4 - 13x^3 - 5x^2 - 6x + 2$$
$$x^6 - 9x^5 + 25x^4 - 26x^3 + 20x^2 - 4$$
$$x^6 - 2x^5 - 6x^4 - 10x^3 + 25x^2 + 3x - 20$$
$$x^6 - 2x^5 - 7x^4 - 27x^3 + 3x^2 + 35x + 15$$
$$x^6 - 6x^5 + 5x^4 + 13x^3 - 15x^2 + 14x + 8$$
$$x^6 + 2x^5 - 5x^4 - 10x^3 - x^2 + 10x - 2$$
$$x^6 - x^5 + 5x^4 + 2x^3 + 7x^2 - 2x - 8$$
$$x^6 - 4x^5 - 4x^4 + 25x^3 - 25x - 25$$
$$x^6 + 8x^5 + 17x^4 + 7x^3 + 7x^2 - 1$$

3.4 일계수가 아닌 육차식 1형

$$12x^6 - 23x^5 + 11x^4 + 21x^3 - x^2 - 16x - 10$$
$$15x^6 + 8x^5 - 34x^4 + 10x^3 - 5x^2 + 2x - 1$$
$$3x^6 - 4x^5 + 3x^4 + 4x^3 - 8x^2 - 6x - 1$$
$$16x^6 - 4x^5 + 6x^4 + 27x^3 - 26x^2 + 28x - 5$$
$$2x^6 - 3x^5 - 18x^4 - 32x^3 - 8x^2 + 15x + 20$$
$$10x^6 - 5x^5 + 23x^3 - 6x^2 + x + 4$$
$$12x^6 + 15x^5 - 16x^4 - 15x^3 - 16x^2 + 14x - 8$$
$$12x^6 - 35x^5 + 6x^4 + 30x^3 + 4x^2 + 15x - 25$$
$$5x^6 + x^5 + 7x^4 - 24x^3 - 11x^2 - 5x + 3$$
$$5x^6 - 16x^5 - 7x^4 - 26x^3 - 15x^2 - 18x - 3$$
$$2x^6 - 5x^4 - 3x^3 - 9x^2 - x - 12$$
$$3x^6 + 8x^5 - 15x^4 + 11x^3 - 36x^2 + 4x - 20$$
$$15x^6 - 5x^5 - 16x^4 + 26x^3 - 5x^2 - 6x + 15$$
$$12x^6 + 27x^5 + x^4 - 23x^3 - x^2 + 6x - 10$$
$$2x^6 + 11x^5 + 21x^4 + 24x^3 + 23x^2 + 11x + 6$$
$$4x^6 + x^4 - x^3 + 7x^2 - 4x - 12$$
$$25x^6 + 20x^5 + 15x^4 + 60x^3 + 2x^2 + 19x + 15$$
$$4x^6 - 20x^5 + 22x^4 - 17x^3 + 5x^2 + x - 2$$
$$9x^6 - 21x^5 + 16x^4 - 13x^3 + 21x^2 - 10x - 10$$
$$2x^6 + 10x^5 + 11x^4 - 5x^3 - 23x^2 - 24x - 15$$
$$4x^6 - 9x^5 + 2x^4 - 14x^3 + 10x^2 + 11x + 20$$
$$10x^6 - 5x^5 + 14x^4 - 2x^3 - x^2 + 6x - 10$$
$$5x^6 + x^5 + 30x^4 + 13x^3 + 26x^2 + 20x + 3$$
$$10x^6 + 5x^5 - 21x^4 - 4x^3 - 9x^2 + 6x + 10$$
$$20x^6 + 12x^5 - 12x^4 - 7x^3 + 7x^2 + 30x - 25$$
$$16x^6 + 32x^5 + 3x^4 - 19x^3 - x^2 + 6x - 2$$
$$3x^6 - 5x^5 + 5x^4 + 3x^3 + 40x^2 - 6x - 8$$
$$20x^6 + 26x^5 - 27x^4 + 29x^2 - 19x + 6$$
$$4x^6 + 11x^5 + 16x^4 + 8x^3 + 5x^2 + 2x - 2$$
$$3x^6 - 11x^5 + 7x^4 - 28x^3 + 11x^2 - 17x + 3$$
$$15x^6 - 18x^5 + 23x^4 - 14x^3 - 10x^2 + 20x - 25$$
$$2x^6 - 7x^5 - 2x^4 + 5x^3 + 2x^2 + 13x - 12$$
$$25x^6 + 20x^5 - 35x^4 + 12x^3 + 8x^2 - 22x + 5$$
$$12x^6 - 22x^4 - 39x^3 - 7x^2 + 8x + 6$$
$$4x^6 - 4x^5 + 9x^4 + 4x^3 - 4x^2 + 8x + 4$$
$$6x^6 - 5x^5 - 45x^4 - x^3 + 6x^2 - 1$$
$$3x^6 - 8x^5 - 5x^4 + 28x^3 - 4x^2 + 6x + 4$$
$$12x^6 - x^5 - 17x^4 + 19x^3 + x^2 - 8x + 4$$
$$2x^6 + 3x^5 - 19x^4 + 29x^3 - 7x^2 + 8x + 16$$
$$8x^6 - 4x^5 - 6x^4 - 26x^3 + 5x^2 + 23x + 10$$
$$6x^6 + 6x^5 - x^4 + 26x^3 - 6x^2 - 3x + 12$$
$$25x^6 + 45x^5 + 20x^4 + 20x^3 - 14x^2 + 25x - 4$$
$$15x^6 - 9x^5 - 40x^3 + 15x^2 + 25$$
$$6x^6 + 5x^5 + 11x^4 + 8x^3 + 15x^2 - 3x - 2$$
$$4x^6 - 6x^5 - 12x^4 + 14x^3 + 13x^2 - 3x - 15$$
$$25x^6 - 10x^5 - 18x^4 + 20x^3 + 13x^2 - 8x - 10$$
$$16x^6 - 12x^5 - 2x^4 - 3x^3 - 36x^2 - 5x + 10$$
$$9x^6 + 3x^5 - 15x^4 - 2x^3 - 11x^2 + 4x - 6$$
$$25x^6 + 34x^4 + 15x^3 + 53x^2 + 15x - 10$$
$$10x^6 + 18x^5 - x^4 + 21x^3 + 7x^2 - x + 12$$
$$10x^6 - 5x^5 + 9x^4 - 30x^3 + 7x^2 + 25x - 12$$
$$2x^6 + x^5 + 3x^4 + 4x^3 - 12x^2 - 13x - 5$$
$$8x^6 - 4x^5 - 22x^4 - 11x^3 - 29x^2 - 6x - 20$$
$$2x^6 - 14x^5 + 16x^4 + 9x^3 + 7x^2 + 6x - 6$$
$$10x^6 + 10x^5 + 3x^4 - 23x^3 - 14x^2 - 4x + 8$$
$$6x^6 + 7x^5 + 12x^4 - 9x^3 + 5x^2 + 5x - 2$$
$$6x^6 + 15x^5 - 5x^4 - 15x^3 + 7x^2 - 10x - 6$$
$$4x^6 + 18x^5 + 3x^4 - 7x^3 + 17x^2 + 4x - 4$$
$$9x^6 + 5x^4 - x^3 + 40x^2 + 7x - 12$$
$$3x^6 + x^5 + 8x^4 + 2x^3 + 5x^2 + 13x + 4$$
$$4x^6 + 12x^5 + 3x^4 - 35x^3 - 22x^2 + 12x + 16$$
$$4x^6 + 20x^5 + 11x^4 - 29x^3 + 26x - 8$$
$$15x^6 - 25x^5 - 24x^4 + 44x^3 - 6x^2 - 21x + 12$$
$$20x^6 - 40x^5 + 11x^4 + 10x^3 - 21x^2 + 9x - 1$$
$$16x^6 + 28x^5 + 42x^4 + 27x^3 + 19x^2 - 9x - 6$$
$$6x^6 - 9x^5 - 7x^4 + 7x^3 - 7x^2 - 20x - 20$$

$$10x^6+15x^5+33x^4+7x^3+35x^2+13x-15$$
$$3x^6-16x^5+16x^4+11x^3-12x^2+x+3$$
$$20x^6+19x^5+4x^4+x^3-7x^2-6x-9$$
$$4x^6+16x^5+24x^4+14x^3-x^2+7x-20$$
$$10x^6-x^5+15x^4-8x^2+12x-15$$
$$6x^6+3x^5-11x^4-22x^3+x^2+19x+12$$
$$8x^6-8x^5-20x^4+7x^3+17x^2+4x-4$$
$$8x^6-20x^5+32x^4-54x^3+47x^2-35x+25$$
$$20x^6+21x^5-28x^4-18x^3+14x^2+3x-3$$
$$15x^6+8x^5-8x^4+6x^3+x^2-9x-6$$
$$4x^6-17x^5+17x^4-6x^3-16x^2+14x-5$$
$$12x^6-6x^5-29x^4-x^3+17x^2+7x-6$$
$$9x^6+6x^5-5x^4-23x^3-22x^2+3x+12$$
$$20x^6-30x^5+20x^4-9x^3-3x^2-2x-1$$
$$10x^6+21x^5+9x^4-14x^3+19x^2-5x-4$$
$$5x^6-15x^5-5x^4-29x^3-14x^2-18x-4$$
$$3x^6+3x^5-25x^4-x^3+22x^2+18x+4$$
$$5x^6+18x^5-11x^4+2x^3-12x^2+x+3$$
$$10x^6+5x^5-15x^4+31x^3+17x^2-20x+12$$
$$2x^6-x^5+4x^4+2x^3+17x^2+x-1$$
$$2x^6+5x^4+14x^3+20x^2+26x+8$$
$$15x^6-3x^5-30x^4-13x^3+16x^2+8x-3$$
$$8x^6-12x^5-2x^4-x^3+6x^2+2x+1$$
$$12x^6-4x^5+8x^4+29x^3-23x^2-x+12$$
$$2x^6-5x^5+12x^4-22x^3+26x^2-4$$
$$3x^6+11x^5-21x^4+16x^3+21x^2-30x+20$$
$$10x^6-4x^5-x^4-11x^3-17x^2+5x+20$$
$$8x^6+4x^5+10x^4-35x^3+28x^2-5$$
$$12x^6+6x^5+11x^4-29x^3-15x^2-19x+4$$
$$8x^6-12x^5-32x^4-26x^3-41x^2-21x+5$$
$$25x^6+25x^5+9x^4-30x^3-26x^2-4x+16$$
$$20x^6+17x^5-22x^4-44x^3-16x^2+5x+5$$
$$3x^6-9x^5-2x^3+15x^2-5$$
$$15x^6+8x^5-7x^4-54x^3+2x^2+x+15$$
$$6x^6-11x^5-6x^4-17x^3-6x^2+x+6$$
$$16x^6+12x^5-26x^4+14x^3+19x^2-19x+5$$
$$6x^6-15x^5-23x^4+9x^3+10x^2+10x-10$$
$$5x^6+x^5+20x^4-5x^3-x^2-16x+4$$
$$4x^6+21x^5+34x^4+15x^3-18x^2-24x-10$$
$$20x^6-26x^4-19x^3+9x^2+10x-3$$
$$3x^6+9x^5+18x^4+8x^3+21x^2+7x-2$$
$$9x^6-12x^5+15x^4-x^3-7x^2+12x-6$$
$$2x^6+6x^5-5x^4-7x^3+18x^2-13x+4$$
$$6x^6+2x^5+5x^4-2x^3+29x^2+16x-16$$
$$20x^6-41x^5+33x^4+16x^3-31x^2+9x+10$$
$$3x^6+3x^5-7x^4+10x^3-24x^2+31x-12$$
$$8x^6-12x^5-16x^4-20x^3-31x^2-8x-12$$
$$6x^6-15x^5+9x^4+x^3-10x^2+7x+4$$
$$6x^6-6x^5+17x^4-34x^3+20x^2-15x+10$$
$$5x^6-23x^5-6x^4+26x^3+12x^2-5x-4$$
$$5x^6-16x^5+24x^4+2x^3+5x^2-2x-2$$
$$5x^6-x^5+24x^4-24x^3-x^2+9x-4$$
$$15x^6+6x^5-15x^4-11x^3-21x^2-4x-10$$
$$5x^6+10x^5+21x^3+26x^2-x+5$$

3.5 일계수가 아닌 육차식 2형

$$16x^6+24x^5-12x^4-62x^3-100x^2-115x-75$$
$$40x^6-20x^5+54x^4-7x^3+2x^2+6x-12$$
$$8x^6-52x^5+78x^4-57x^3-57x^2+88x+20$$
$$8x^6-46x^5+30x^4+67x^3-24x^2-17x+6$$
$$2x^6+2x^5-3x^4-3x^3-20x^2+75x-125$$
$$45x^6-96x^5-58x^4+200x^3-94x^2+4x+5$$
$$75x^6+75x^5-163x^4-124x^3+96x^2+32x-16$$
$$4x^6-14x^5+16x^4-27x^3+15x^2+45x+9$$
$$9x^6-48x^5+36x^4+34x^3-86x^2+54x-9$$
$$40x^6+94x^5+133x^4+115x^3+62x^2+76x-16$$
$$15x^6+27x^5-77x^4-6x^3+40x^2-40x+48$$
$$36x^6-33x^5-84x^4-25x^3+64x^2+70x+20$$
$$6x^6+16x^5+11x^4+9x^3+6x^2-7x+1$$
$$5x^6+37x^5+70x^4+114x^3-55x^2-23x-20$$
$$24x^6-38x^5+8x^4+5x^3+x^2-17x-3$$
$$50x^6+5x^5-171x^4-46x^3+129x^2+23x-20$$
$$15x^6-22x^5+38x^4+4x^3+31x^2-110x-100$$
$$100x^6+105x^5-173x^4-310x^3-123x^2+145x+100$$
$$12x^6-43x^5+24x^4-56x^3-11x^2+8x+10$$
$$5x^6+27x^5+x^4-112x^3+28x^2+96x-48$$
$$8x^6-14x^5-49x^4+8x^3+61x^2+40x+10$$
$$4x^6-8x^5+27x^4-26x^3+33x^2-14x+8$$
$$60x^6-56x^5+91x^4-81x^3+121x^2-61x+30$$
$$8x^6+44x^5+60x^4-36x^3-112x^2-13x+60$$
$$4x^6+6x^5-5x^4+80x^3-99x^2+84x-45$$
$$50x^6+100x^5+213x^4+203x^3+204x^2+92x+48$$
$$40x^6-76x^5-186x^4+65x^3-135x^2-25x+125$$
$$15x^6+17x^5-22x^4-28x^3-20x^2-12x+8$$
$$15x^6+13x^5+33x^4+12x^3+3x^2-x-15$$
$$20x^6-24x^5-49x^4+175x^3+27x^2-173x+60$$
$$8x^6+18x^5-8x^4-17x^3+104x^2+25x-100$$
$$10x^6+8x^5-29x^4-20x^2-13x+4$$
$$12x^6-23x^5-118x^4-9x^3+101x^2-4x-15$$
$$10x^6+40x^5+93x^4+124x^3+114x^2+61x+20$$

$$30x^6 - 109x^5 + 15x^4 + 65x^3 + 78x^2 + 86x + 24$$
$$75x^6 + 150x^5 + 142x^4 + 55x^3 - 22x^2 - 28x - 8$$
$$4x^6 - 4x^5 - 53x^4 - 97x^3 - 34x^2 + 60x + 40$$
$$24x^6 + 74x^5 + 41x^4 - 60x^3 - 73x^2 - 2x + 24$$
$$5x^6 - 4x^5 - 113x^4 + 75x^3 + 48x^2 - 41x + 6$$
$$2x^6 - 5x^5 - 12x^4 - 34x^3 + 23x^2 - 48x + 20$$
$$20x^6 - 44x^5 - 105x^4 + 49x^3 + 174x^2 + 130x + 40$$
$$45x^6 + 75x^5 + 72x^4 - 83x^3 - 159x^2 - 170x - 40$$
$$125x^6 - 150x^4 - 25x^3 - 70x^2 - 10x + 4$$
$$6x^6 - 16x^5 + 3x^4 + 2x^3 - 70x^2 + 105x - 100$$
$$4x^6 - 8x^5 + 9x^4 + 35x^3 - 82x^2 + 108x - 48$$
$$100x^6 + 105x^5 + 55x^4 + 126x^3 - 59x^2 + 45x - 36$$
$$2x^6 - 5x^5 - 2x^4 + 33x^3 - 42x^2 - 13x + 30$$
$$125x^6 - 50x^5 - 25x^4 - 49x^3 - 72x^2 - 29x - 12$$
$$100x^6 + 100x^5 - 285x^4 - 180x^3 + 188x^2 + 33x - 10$$
$$10x^6 + 47x^5 - 27x^4 - 129x^3 + 47x^2 + 40x - 12$$
$$48x^6 + 72x^5 + 11x^4 - 24x^3 - 57x^2 + 16$$
$$16x^6 + 48x^5 - 133x^4 - 68x^3 + 101x^2 + 72x + 12$$
$$3x^6 + 13x^5 - 19x^3 - 51x + 45$$
$$48x^6 - 28x^5 + 70x^4 - 77x^3 + 16x^2 - 19x - 60$$
$$8x^6 - 46x^5 + 83x^4 - 15x^3 - 96x^2 + 45x + 45$$
$$24x^6 + 34x^5 - 125x^4 + 2x^3 - 34x^2 + 20x + 16$$
$$4x^6 + 31x^5 + 94x^4 + 137x^3 + 95x^2 + 34x + 5$$
$$20x^6 + 60x^5 + 109x^4 + 123x^3 + 113x^2 + 60x + 10$$
$$12x^6 - 28x^5 + 33x^4 - 13x^3 - 69x^2 + 85x - 100$$
$$2x^6 + 4x^5 - 7x^4 - 8x^3 - x^2 - 2x - 15$$
$$30x^6 + 20x^5 + 49x^4 + 26x^3 + 25x^2 + 8x + 4$$
$$30x^6 + 86x^5 + 65x^4 + 3x^3 - 55x^2 + 107x - 60$$
$$24x^6 + 10x^5 + 22x^4 - x^3 - x^2 - 2x - 8$$
$$4x^6 - 9x^5 - 24x^4 + 43x^3 + 16x^2 + 10x + 20$$
$$2x^6 + 13x^5 + 32x^4 + 54x^3 + 52x^2 + 33x + 6$$
$$12x^6 + 13x^5 + 18x^4 + 31x^3 + 26x^2 + 12x - 24$$
$$8x^6 - 32x^5 - 14x^4 + 22x^3 - 149x^2 + 40x + 50$$
$$15x^6 + x^5 - 66x^4 + 95x^3 - 103x^2 - 50$$
$$75x^6 + 45x^5 - 95x^4 - 31x^3 + 27x^2 + 11x - 4$$
$$16x^6 + 32x^5 - 129x^4 + 84x^3 - 63x^2 - 56x + 16$$
$$12x^6 + 77x^5 + 118x^4 + 124x^3 - 15x^2 - 60x - 100$$
$$16x^6 - 84x^5 - 26x^4 - 153x^3 - 135x^2 - 85x - 100$$
$$25x^6 - 25x^5 - 20x^4 + 75x^3 - 77x^2 + 38x - 8$$
$$16x^6 - 12x^5 + 8x^4 - 39x^3 - 52x^2 + 51x - 20$$
$$6x^6 + 20x^5 + 21x^4 + 12x^3 + 4x^2 + 16x - 4$$
$$30x^6 - 72x^5 - 13x^4 + 116x^3 - 54x^2 - 7x + 4$$
$$25x^6 + 25x^5 + 25x^4 - 25x^3 - 46x^2 + 4x + 8$$
$$75x^6 + 20x^5 - 70x^4 - 36x^3 + 3x^2 + 16x + 4$$
$$60x^6 + 71x^5 + 88x^4 + 61x^3 + 53x^2 + 18x + 9$$
$$60x^6 - 29x^5 - 99x^4 - 67x^3 - 38x^2 + 94x + 40$$
$$60x^6 - 144x^5 + 25x^4 + 85x^3 - 20x^2 + 9x + 5$$
$$12x^6 - 53x^5 + 138x^4 - 175x^3 + 55x^2 + 100x - 125$$
$$12x^6 - 14x^5 - 12x^4 - 87x^3 - 99x^2 - 83x - 60$$
$$40x^6 - 30x^5 - 41x^4 - 174x^3 + 91x^2 + 174x + 40$$
$$6x^6 + 41x^5 + 35x^4 - 100x^3 - 69x^2 + 79x - 12$$
$$12x^6 + 30x^5 - 23x^4 - 72x^3 - 55x^2 + 8x + 80$$
$$5x^6 + 25x^5 + 31x^4 + 21x^3 - 13x^2 - 35x + 10$$
$$2x^6 + 3x^5 - 4x^4 - 40x^3 - 81x^2 - 112x - 48$$
$$6x^6 + 11x^5 - 21x^4 + 39x^3 - 45x^2 + 58x - 24$$
$$8x^6 - 32x^5 + 76x^4 - 97x^3 + 81x^2 - 33x + 9$$
$$50x^6 - 170x^5 + 49x^4 + 91x^3 - 93x^2 + 120x + 100$$
$$50x^6 + 45x^5 + 95x^4 - 12x^3 - 133x^2 - 111x - 30$$
$$100x^6 - 235x^5 + 69x^4 + 129x^3 - 55x^2 - 8x + 12$$
$$20x^6 + 8x^5 - 56x^4 - 24x^3 + 13x^2 + 10x + 5$$
$$6x^6 + 19x^5 + 3x^4 - 35x^3 - 59x^2 - 66x - 12$$
$$18x^6 - 39x^5 + 53x^4 - 29x^3 - 52x^2 + 84x - 80$$
$$12x^6 - 28x^5 - x^4 + 46x^3 - 44x^2 - 8x + 32$$
$$10x^6 - 39x^5 - 73x^4 - 39x^3 + 29x^2 + 24x + 4$$
$$80x^6 + 100x^5 + 22x^4 - 5x^3 - 79x^2 - 18x - 30$$
$$12x^6 - 39x^5 - 23x^4 - 101x^3 - 41x^2 - 72x - 16$$
$$12x^6 + 2x^5 + 10x^4 + 21x^3 - 80x^2 + 40x - 75$$
$$100x^6 + 30x^5 - 143x^4 - 39x^3 - 120x^2 + 25x + 125$$
$$50x^6 - 55x^5 - 111x^4 - 37x^3 + 25x^2 + 36x + 12$$
$$50x^6 - 65x^5 + 60x^4 - 47x^3 - 6x^2 - 11x - 2$$
$$2x^6 + 8x^5 - 5x^4 + 22x^3 + 40x^2 + 8x - 48$$
$$40x^6 - 10x^5 + 31x^4 - 34x^3 - 18x^2 + 24x - 9$$
$$8x^6 + 8x^5 + 36x^4 + 16x^3 + 58x^2 + 18x + 45$$
$$40x^6 + 94x^5 - 139x^4 - 146x^3 - 62x^2 + 21x + 60$$
$$100x^6 - 205x^5 + 280x^4 - 232x^3 + 169x^2 - 82x + 24$$
$$36x^6 - 15x^5 - 72x^4 + 26x^3 - 56x^2 - 59x + 12$$
$$100x^6 + 85x^5 - 165x^4 - 12x^3 + 44x^2 - x - 3$$
$$10x^6 + 36x^5 - 143x^4 - 176x^3 + 129x^2 + 84x - 45$$
$$12x^6 + 51x^5 - 74x^4 + 119x^3 - 132x^2 + 68x - 16$$
$$3x^6 + 24x^5 + 71x^4 + 100x^3 + 76x^2 + 56x + 20$$
$$60x^6 - 23x^5 + 146x^4 - 69x^3 + 142x^2 - 52x + 48$$
$$45x^6 + 18x^5 - 26x^4 + 37x^3 - 6x^2 - 22x + 8$$
$$18x^6 - 57x^5 + 96x^4 - 127x^3 + 140x^2 - 81x + 20$$
$$12x^6 + 49x^5 - 102x^4 - 128x^3 - 149x^2 - 30x + 40$$
$$6x^6 + x^5 + 10x^4 - 15x^3 - 16x^2 - x - 30$$
$$30x^6 - 45x^5 - 7x^4 + 36x^3 - 19x^2 - 7x + 6$$

3.6 일계수가 아닌 육차식 3형

$$3x^6 + 16x^5 + 24x^4 + 28x^3 + 20x^2 - 1$$
$$8x^6 + 6x^5 - 36x^4 + 17x^3 + 30x^2 - 33x + 10$$

$$10x^6 - 29x^5 - 14x^4 + 8x^3 + 35x^2 + 15x - 4$$
$$4x^6 - 11x^5 - 20x^4 - 13x^3 + 21x^2 + 8x - 5$$
$$20x^6 - 3x^5 - 22x^4 - 44x^3 + 12x^2 + 16x - 15$$
$$4x^6 - 16x^5 + 10x^4 + 2x^3 - 15x^2 - x + 1$$
$$16x^6 - 8x^5 - 3x^4 - 7x^3 + 16x^2 - 9x + 10$$
$$3x^6 + 9x^5 + 4x^4 - 2x^3 - x^2 + 5x - 2$$
$$25x^6 + 5x^5 - 32x^4 + 4x^3 - 7x^2 + 23x - 10$$
$$3x^6 + 6x^5 + 2x^4 - 3x^3 + 3x^2 + 12x + 2$$
$$16x^6 + 12x^5 - 4x^4 - 10x^3 - 14x^2 + 15x - 3$$
$$25x^6 - 40x^5 + 50x^4 - 14x^3 + 13x^2 + 6x + 8$$
$$5x^6 + x^5 + 4x^4 - 21x^3 + 29x^2 - 20x + 6$$
$$2x^6 - 3x^5 - 10x^4 + 7x^3 + 6x^2 - 7x - 10$$
$$6x^6 + x^5 - 27x^4 + 5x^3 + 22x^2 + 12x - 15$$
$$20x^6 + x^5 + 29x^4 + 23x^3 - 4x^2 + 22x - 10$$
$$10x^6 - 19x^5 - 7x^4 + 8x^3 + 17x^2 - 3x - 2$$
$$12x^6 + 31x^5 + 17x^4 + 6x^3 + 18x^2 + 11x - 15$$
$$5x^6 - 25x^5 + 20x^4 + 29x^3 - 42x^2 + 5x + 15$$
$$4x^6 - 15x^5 - 24x^4 + 4x^3 + 18x^2 + 9x - 4$$
$$6x^6 - 11x^5 + 24x^4 - 24x^3 + 10x^2 - 4x - 16$$
$$4x^6 - 13x^5 - 4x^4 + 45x^3 - 13x^2 - 32x + 16$$
$$3x^6 + 15x^5 + 20x^4 + 21x^3 + 4x^2 - 25x - 5$$
$$15x^6 - 16x^5 + 3x^4 + 18x^3 - 4x^2 + 8x + 6$$
$$5x^6 + 11x^5 + 13x^4 + 28x^2 + 19x + 20$$
$$9x^6 - 21x^4 - 33x^3 + x^2 + 34x + 15$$
$$15x^6 + 17x^5 + 27x^4 + 18x^3 + 33x^2 + 29x + 5$$
$$5x^6 + 16x^5 + 32x^4 + 42x^3 + 45x^2 + 24x + 16$$
$$3x^6 - 11x^5 + 7x^4 + 21x^3 - 15x^2 - 20x + 25$$
$$5x^6 - 29x^5 + 48x^4 - 10x^3 - 15x^2 + 23x - 6$$
$$3x^6 - 11x^5 + 24x^4 - 26x^3 - 4x^2 - 5x - 25$$
$$2x^6 - x^5 - x^4 - 37x^3 + 12x^2 + 25x + 4$$
$$4x^6 + 5x^5 - 5x^4 - 12x^3 - 27x^2 - 11x - 10$$
$$15x^6 + 10x^5 - 11x^4 - 33x^3 + 2x^2 + 21x + 20$$
$$4x^6 + 12x^5 + 4x^4 + x^3 + 2x^2 - 2x - 1$$
$$15x^6 + x^5 - 18x^4 - 3x^3 - 28x^2 + 11x + 20$$
$$3x^6 - 7x^5 - 13x^4 + 4x^3 + 44x^2 + 45x + 20$$
$$6x^6 + 6x^5 - 11x^4 - 24x^3 - 21x^2 - 4x + 3$$
$$20x^6 - 24x^5 + 18x^4 - 11x^3 - 22x^2 + 4x - 5$$
$$15x^6 + 16x^5 - 4x^4 - 8x^3 + 31x^2 - 18x + 8$$
$$4x^6 + 5x^5 - 22x^4 + 15x^3 + 8x^2 - 8x - 8$$
$$4x^6 + 18x^5 + 24x^4 + 6x^3 + 2x^2 + 25x + 20$$
$$3x^6 - 20x^5 + 11x^4 + 49x^3 + 6x^2 - 25x - 10$$
$$10x^6 + 7x^5 - 18x^4 + 8x^3 - 8x^2 - 24x - 5$$
$$3x^6 + 2x^5 + 10x^4 - 7x^3 - 23x^2 + 5x - 25$$
$$2x^6 + x^5 - 7x^4 - 5x^3 + 8x^2 + 6x - 15$$
$$5x^6 + x^5 - 14x^4 + 19x^3 - 6x^2 - 24x - 5$$
$$15x^6 - 22x^5 - 16x^4 + 6x^3 + 13x^2 + 19x + 12$$
$$6x^6 - 11x^5 + 10x^4 - 18x^3 - 3x^2 - 6x - 8$$
$$4x^6 - 5x^5 + 4x^4 + 5x^3 + 3x^2 - 4x + 10$$
$$12x^6 + 13x^5 + 3x^4 + 22x^3 - 25x^2 - 20x + 10$$
$$10x^6 + 13x^5 - 19x^4 + 20x^3 - 20x^2 + 6x - 4$$
$$12x^6 - 14x^5 + 13x^4 - 25x^3 - 8x^2 - 13x - 20$$
$$12x^6 + 3x^5 + 13x^4 + 12x^3 + 9x^2 - 11x - 12$$
$$2x^6 + x^5 - 6x^4 + x^3 + 22x^2 - 15x + 5$$
$$6x^6 - 3x^5 + 10x^4 - 13x^3 - 11x^2 + 2x + 1$$
$$20x^6 - 14x^5 + 19x^4 - 27x^3 - 7x^2 + 5x - 5$$
$$15x^6 - 30x^5 + 38x^4 - 14x^3 + 7x^2 + 16$$
$$5x^6 + 5x^5 - 21x^4 + 28x^3 - 7x^2 - 6x + 8$$
$$20x^6 - 5x^5 + 8x^4 + 10x^2 + 9x + 6$$
$$2x^6 - 4x^5 - 3x^4 + 6x^3 - 5x^2 - 2x + 3$$
$$3x^6 + 10x^5 + 21x^4 + 25x^3 + 23x^2 + 17x + 3$$
$$10x^6 - x^4 + 11x^3 - 12x^2 + 9x - 2$$
$$4x^6 + 12x^5 + 18x^4 + 7x^3 - 4x^2 + 5x + 12$$
$$10x^6 - 15x^5 + 19x^4 - 27x^3 + 9x^2 + 4x - 4$$
$$8x^6 - 18x^5 - 9x^4 + 24x^3 - 4x^2 - 3x + 6$$
$$20x^6 - 3x^5 + 4x^4 + 28x^3 - 30x^2 + 14x - 15$$
$$15x^6 + 24x^5 + 31x^4 + 24x^3 + 29x^2 + 19x + 10$$
$$5x^6 - 10x^5 + 17x^4 + 11x^3 + x^2 + 6x - 2$$
$$2x^6 + 2x^5 - 5x^4 + 6x^3 - 8x^2 - 9$$
$$12x^6 + 26x^5 + 36x^4 + 26x^3 + 17x^2 + 5x - 5$$
$$10x^6 - 28x^5 + 35x^4 - 12x^3 - x^2 - 22x + 15$$
$$16x^6 + 36x^4 - 16x^3 + 29x^2 - 18x - 5$$
$$20x^6 + 13x^5 - 22x^3 - 21x^2 + 7x + 6$$
$$10x^6 - 3x^5 - 3x^4 - 18x^3 + 42x^2 - 35x + 15$$
$$3x^6 + 12x^5 + 27x^4 + 28x^3 + 24x^2 + 11x - 15$$
$$15x^6 + 32x^5 - 2x^3 - x^2 - 2x - 10$$
$$16x^6 - 24x^5 + 4x^4 - 10x^3 - 12x^2 + 5x - 15$$
$$2x^6 + 4x^5 - 3x^4 - 5x^2 + 20x - 6$$
$$6x^6 + 2x^5 - 5x^4 - 33x^3 - 26x^2 - 40x - 25$$
$$4x^6 + 17x^5 - 8x^4 - 7x^3 - 12x^2 + 28x - 12$$
$$5x^6 - 21x^5 - 43x^4 - 6x^3 + 33x^2 + 40x + 16$$
$$5x^6 - 22x^5 - 11x^4 + 2x^3 - 5x^2 + 26x + 20$$
$$10x^6 - 15x^5 - 41x^4 - 40x^3 + 25x^2 - 16$$
$$5x^6 + 20x^5 + 4x^4 + 5x^2 + 14x - 8$$
$$5x^6 - 12x^5 + x^4 + 27x^3 - 21x^2 + 9$$
$$20x^6 + 2x^5 - 2x^4 - 18x^3 - 15x^2 + 10x + 6$$
$$6x^6 - 7x^5 + 13x^4 - 18x^2 + 22x - 10$$
$$10x^6 + 10x^5 - 17x^4 - 5x^3 + 23x^2 + 8x - 2$$
$$20x^6 - 35x^5 + 26x^4 - 22x^3 + 31x^2 - 32x + 16$$
$$16x^6 + 24x^5 + 8x^4 + 18x^3 - 5x^2 + 2x - 15$$
$$15x^6 + 23x^5 + 8x^4 + 11x^3 + 12x^2 + 3x + 9$$
$$8x^6 - 14x^5 + 3x^4 + 14x^3 + 16x^2 - 30x + 15$$
$$4x^6 - 21x^5 - x^4 + 44x^3 + 3x^2 + 10x + 15$$
$$12x^6 - 10x^5 - 30x^4 + 2x^3 + 9x^2 + 25x + 25$$
$$4x^6 - 15x^5 - 10x^4 + 54x^3 - 48x^2 + 35x - 15$$

$10x^6 + 18x^5 + 31x^4 - 10x^3 + 20x^2 - 23x - 10$

$10x^6 - 12x^5 - 5x^4 + 30x^3 - 32x^2 + 27x - 9$

$15x^6 - 27x^5 + 11x^4 - 4x^3 - 2x^2 + 4x - 2$

$4x^6 + 5x^5 + 12x^4 + 4x^3 + 2x^2 - 5x - 6$

$2x^6 - 4x^5 - 13x^4 + 14x^2 + 25x + 15$

$12x^6 - 4x^5 - 8x^4 + 17x^3 + x^2 + 13x - 15$

$12x^6 - 7x^5 - 5x^4 + 19x^3 - 21x^2 + 16x - 6$

$3x^6 - 4x^5 - 15x^4 + 29x^3 + 25x^2 - 10x - 3$

$15x^6 + 13x^5 + 15x^4 + 24x^3 - 14x^2 - 4$

$16x^6 + 4x^5 - 2x^4 - 33x^3 - 44x^2 - 31x - 20$

$3x^6 + 6x^5 + 16x^4 + 4x^3 + 4x^2 - 24x - 16$

$3x^6 + 15x^5 - 8x^4 - 13x^3 + 20x^2 - 20x - 25$

$8x^6 - 6x^5 + 13x^4 - 16x^3 + 24x^2 - 6x - 9$

$5x^6 + x^5 - 7x^4 + x^3 - 13x^2 + 10x - 6$

$25x^6 + 20x^5 + 18x^4 + 31x^3 - 20x^2 + 12x - 16$

$5x^6 + 7x^5 + 3x^4 - 15x^3 + 21x^2 - 19x + 4$

$16x^6 - 24x^5 - 23x^4 + 32x^3 + 13x^2 - 9x - 3$

$8x^6 - 18x^5 - 13x^4 - 26x^3 - 7x^2 - 6x - 8$

$15x^6 - 21x^5 + 29x^4 - 31x^3 + 32x^2 - 12x + 4$

$9x^6 - 9x^5 - 13x^4 - 16x^3 - 3x - 10$

$10x^6 - 11x^5 - 28x^4 - 5x^3 + 8x^2 - 6x - 8$

$2x^6 - 14x^5 + 17x^4 + 15x^3 - 21x^2 + 17x + 5$

$15x^6 - 23x^5 - 2x^4 - 18x^3 + 18x^2 - 11x - 15$

$8x^6 + 12x^5 - 40x^4 + 14x^3 + 26x^2 - 21x + 4$

4. 칠차식의 인수분해

4.1 일계수 칠차식 1형

$$x^7+3x^6-21x^5-47x^4+28x^3-5x^2-16x-3$$
$$x^7+12x^6+54x^5+133x^4+239x^3+253x^2+120x+20$$
$$x^7-6x^6+9x^5-20x^4+49x^3-144x^2+76x-10$$
$$x^7-11x^6+25x^5+53x^4-98x^3-200x^2-104x-16$$
$$x^7-4x^6+7x^5-19x^4+8x^3+17x^2-10x+60$$
$$x^7-5x^5+9x^4-20x^3+21x^2-14x+12$$
$$x^7+x^6-11x^5+18x^4-14x^3-35x^2+4x+6$$
$$x^7-2x^6-16x^5-31x^4-28x^3-64x^2-140x-80$$
$$x^7-2x^6-13x^5+16x^4-14x^3-8x^2+32x+16$$
$$x^7-3x^6-11x^5-22x^4-23x^3+11x^2+99x+60$$
$$x^7-x^6-3x^5-2x^4-9x^3+12x^2+22x-8$$
$$x^7+6x^6+13x^5+37x^4+26x^3+45x^2+8x-10$$
$$x^7+2x^6+2x^5-11x^4-37x^3-40x^2-42x+45$$
$$x^7+10x^6+21x^5-32x^4-63x^3-3x^2-27x+27$$
$$x^7-8x^6+16x^5-7x^4+21x^3+41x^2-54x-30$$
$$x^7-4x^6-9x^5+46x^4-34x^3+2x^2+16x-4$$
$$x^7+7x^6+4x^5-20x^4+x^3+7x^2-26x+10$$
$$x^7+3x^6-30x^5-100x^4+26x^3-2x^2-105x-45$$
$$x^7+8x^6+2x^5-29x^4+131x^3-317x^2+280x-80$$
$$x^7-10x^6+31x^5-33x^4-10x^3+59x^2-46x+10$$
$$x^7-3x^6+2x^4+15x^3-44x^2+25x-4$$
$$x^7+5x^6+8x^5+18x^4+37x^3+13x^2+6x-8$$
$$x^7+2x^6-x^5-2x^4+2x^3-7x^2-15x+6$$
$$x^7+x^6-17x^5+21x^4-37x^3-95x^2-22x+8$$
$$x^7+8x^6+21x^5+13x^4-32x^3-47x^2-4x+20$$
$$x^7+5x^6+4x^5+19x^4+51x^3+50x^2+6x+60$$
$$x^7-8x^6+20x^5-19x^4-9x^3+50x^2+80x-75$$
$$x^7-29x^5-51x^4+78x^3+209x^2+140x+30$$
$$x^7+8x^6+14x^5-11x^4-54x^3-55x^2+49x+60$$
$$x^7+2x^6+2x^5+2x^4+12x^3+18x^2-15x+50$$
$$x^7-9x^6+22x^5-24x^4+20x^3-7x^2-40x+10$$
$$x^7+8x^6+13x^5-2x^4+16x^3+33x^2-57x+18$$
$$x^7-18x^5+32x^4+17x^3-64x^2+12x+16$$
$$x^7+4x^6+4x^5-x^4+4x^3+16x^2-20x-48$$
$$x^7-x^6-18x^5+19x^4+26x^3+47x^2-39x-60$$
$$x^7+3x^6+x^5+21x^4-20x^3+57x^2+18x-27$$
$$x^7+4x^6-4x^5-12x^4+14x^3-24x^2+7x-10$$
$$x^7+7x^6+11x^5+19x^4+54x^3-96x^2+120x-80$$
$$x^7-7x^6+x^5+58x^4-48x^3-67x^2+30x+24$$
$$x^7-8x^6+19x^5-21x^4+11x^3+70x^2-28x+16$$
$$x^7-4x^6+4x^4-55x^3+8x^2-74x-40$$
$$x^7+4x^6-4x^5-16x^4-37x^3-26x^2-6x+12$$
$$x^7+2x^6-16x^5-44x^4-49x^3-8x^2-86x-40$$
$$x^7-2x^6+7x^5+6x^4-23x^3+91x^2-95x+75$$
$$x^7-6x^5-11x^4-26x^3-87x^2-51x-20$$
$$x^7+6x^6+17x^5+47x^4+89x^3+155x^2+100x+125$$
$$x^7-8x^6+7x^5+62x^4-179x^3+130x^2+55x-100$$
$$x^7+3x^6-5x^5-10x^4+10x^3+6x^2-8x-4$$
$$x^7+6x^6-6x^5-31x^4+99x^3+42x^2-30x-9$$
$$x^7+3x^6-7x^5-6x^4+4x^3+68x^2-84x+24$$
$$x^7-x^6-15x^5-3x^4+57x^3+91x^2+58x+12$$
$$x^7+3x^6+8x^5+14x^4+8x^3+18x^2+3x+15$$
$$x^7-2x^6-15x^5+66x^4-97x^3-44x^2+34x+8$$
$$x^7+2x^6-7x^5+46x^4-93x^3+179x^2-215x+75$$
$$x^7-4x^6-5x^5+15x^4+38x^3-25x^2-4x+2$$
$$x^7+7x^6+8x^5-12x^4+10x^3-24x^2+3x-5$$
$$x^7+6x^6-3x^5-19x^4+9x^3-55x^2+80x-25$$
$$x^7+3x^6+4x^5-3x^4-17x^3-22x^2-20x-16$$
$$x^7-5x^6+6x^5-21x^4-11x^3-26x^2-60x-24$$
$$x^7-x^6-11x^5+37x^4-45x^3+33x^2-36x+36$$
$$x^7+4x^6+4x^5+16x^4-14x^3+70x^2+9x-36$$
$$x^7-3x^6+2x^5+3x^4-9x^3-38x^2+68x-20$$
$$x^7+6x^6-x^5-51x^4-134x^3-33x^2+74x-12$$
$$x^7+2x^6-11x^5-17x^4-24x^3+23x^2+90x+36$$
$$x^7-4x^6-6x^5+28x^4+8x^3-30x^2-85x+100$$
$$x^7-7x^6-8x^5+96x^4-16x^3-113x^2-52x-6$$
$$x^7+4x^6-10x^5-16x^4+10x^3-68x^2-91x+20$$
$$x^7-5x^6-16x^5+65x^4+31x^3-64x^2-12x+16$$

$$x^7 - x^6 - 13x^5 + 11x^4 + 11x^3 - 27x^2 + 40x - 10$$
$$x^7 + 7x^6 - 5x^5 - 88x^4 - 69x^3 + 106x^2 + 60x - 45$$
$$x^7 - 11x^5 + 16x^4 + 20x^3 - 58x^2 - 4x + 16$$
$$x^7 + 2x^6 + 20x^4 + 7x^3 + 5x^2 + 90x + 50$$
$$x^7 + x^6 - 6x^5 + 28x^4 - 17x^3 + 19x^2 + 30x - 8$$
$$x^7 - 2x^6 - 4x^5 + 15x^4 - 23x^3 + 9x^2 + 4x - 2$$
$$x^7 + 13x^6 + 60x^5 + 118x^4 + 110x^3 + 87x^2 - 8x - 30$$
$$x^7 + 4x^6 + 7x^5 + 9x^4 + 5x^3 - 6x^2 - 21x + 9$$
$$x^7 + 7x^6 - 7x^5 - 117x^4 - 163x^3 - 25x^2 + 20x + 4$$
$$x^7 + 4x^6 - 8x^5 - 34x^4 + 22x^3 + 76x^2 - 35x - 30$$
$$x^7 - 10x^6 + 16x^5 + 52x^4 + 4x^3 - 124x^2 - 125x - 30$$
$$x^7 + 8x^6 + 22x^5 + 9x^4 - 67x^3 - 114x^2 - 24x + 45$$
$$x^7 - 3x^6 + 5x^5 - 16x^4 + 19x^3 - 13x^2 + 19x + 12$$
$$x^7 - 5x^6 - 10x^5 + 65x^4 - 58x^3 + 52x^2 - 3x - 6$$
$$x^7 + 6x^6 + 5x^5 + 16x^4 - 14x^3 + 7x^2 - 23x + 12$$
$$x^7 + 9x^6 + 14x^5 - 47x^4 - 64x^3 + 94x^2 - 8x - 8$$
$$x^7 - 12x^5 - 17x^4 - 67x^3 - 61x^2 - 66x - 30$$
$$x^7 + 6x^6 + x^5 - 38x^4 - 45x^3 + 44x^2 + 46x - 24$$
$$x^7 - 2x^6 - 11x^5 + 12x^4 - 37x^3 + 29x^2 - 25x + 15$$
$$x^7 + 4x^6 - 33x^5 - 119x^4 + 65x^3 - 58x^2 + 114x - 40$$
$$x^7 + 3x^6 + x^5 - 2x^4 - 23x^3 - 68x^2 - 62x - 15$$
$$x^7 - 2x^6 - 5x^5 - 21x^4 - 2x^3 - 25x^2 + 66x + 60$$
$$x^7 - 5x^6 - 7x^5 + 33x^4 + 25x^3 - x^2 + 18x - 4$$
$$x^7 + 6x^6 + 18x^5 + 48x^4 + 83x^3 + 106x^2 + 62x + 12$$
$$x^7 + 3x^6 - 10x^5 + 30x^4 - 49x^3 + 26x^2 - 25x + 20$$
$$x^7 + 11x^6 + 45x^5 + 100x^4 + 107x^3 + 11x^2 - 113x + 30$$
$$x^7 - 6x^5 + 13x^4 - 31x^3 + 8x^2 - 12x - 9$$
$$x^7 - x^6 - 15x^5 + 23x^4 + 22x^3 - 81x^2 - 12x + 45$$
$$x^7 + 13x^6 + 46x^5 - 6x^4 - 142x^3 + 172x^2 - 88x + 16$$
$$x^7 + 7x^6 + 11x^5 + 16x^4 + 53x^3 - 93x^2 + 3x + 18$$
$$x^7 + x^6 - 15x^5 - 23x^4 - 53x^3 + 55x^2 - 10x + 100$$
$$x^7 - 5x^6 - 7x^5 + 56x^4 - 57x^3 + 47x^2 - 17x + 2$$
$$x^7 - 2x^6 - 24x^5 + 77x^4 - 108x^3 + 46x^2 - 92x + 48$$
$$x^7 - 4x^6 - 10x^5 + 13x^4 - 66x^3 + 14x^2 - 20x - 48$$
$$x^7 + x^6 - 17x^5 - 74x^4 - 102x^3 - 11x^2 + 114x + 40$$
$$x^7 + 5x^6 - 4x^5 - 38x^4 - 33x^3 + 3x^2 + 44x - 10$$
$$x^7 + 4x^6 - 21x^5 - 85x^4 + 4x^3 + 37x^2 - 4$$
$$x^7 + 4x^6 - 3x^5 - 12x^4 + 7x^3 - 36x^2 - 85x - 20$$
$$x^7 - 4x^6 - 2x^5 + 24x^4 - 31x^3 - 9x^2 + 42x - 36$$
$$x^7 - 7x^6 + 22x^5 - 42x^4 + 20x^3 + 15x^2 - 78x - 36$$
$$x^7 - 5x^6 - x^5 - 14x^4 + 11x^3 + 22x^2 + 34x + 15$$
$$x^7 - 5x^6 - 16x^5 + 116x^4 - 162x^3 + 68x^2 - 25x + 15$$
$$x^7 + 2x^6 - 15x^5 - 34x^4 - 149x^3 - 131x^2 - 145x - 75$$
$$x^7 + x^6 - 22x^5 - 65x^4 - 178x^3 - 189x^2 - 19x + 30$$
$$x^7 + x^6 - 20x^5 - 7x^4 + 48x^3 + 10x^2 + 9x + 6$$
$$x^7 - 5x^6 + x^5 + 16x^4 + 11x^3 - 46x^2 + 2x + 5$$
$$x^7 - 2x^6 - 15x^5 + 26x^4 + 43x^3 - 28x^2 - 38x - 8$$
$$x^7 + x^6 - 17x^5 + 81x^3 - 60x^2 - 54x + 45$$
$$x^7 - 5x^6 + 4x^5 - 34x^4 - 47x^3 - 74x^2 - 185x - 100$$
$$x^7 - 5x^6 - 18x^5 + 100x^4 - 88x^3 + 68x^2 - 16$$
$$x^7 + x^6 - 2x^5 + 10x^4 - 6x^3 - 13x^2 + 10x - 100$$
$$x^7 - 6x^6 + x^5 - 9x^3 + 14x^2 + 50x + 30$$

4.2 일계수 칠차식 2형

$$x^7 - 5x^6 + 3x^5 + 9x^4 - 5x^2 - 10x + 25$$
$$x^7 + 2x^6 - 10x^5 - 4x^4 + 6x^3 - 18x^2 + 3x - 4$$
$$x^7 + 9x^6 + 21x^5 + 11x^4 + 19x^3 + 7x^2 - 13x - 4$$
$$x^7 - x^6 - 7x^5 - 12x^4 + 25x^3 - 21x^2 + 9x - 2$$
$$x^7 + 5x^6 + 5x^5 - 3x^4 - 9x^3 - 23x^2 + 4x + 2$$
$$x^7 - 2x^6 + 2x^5 + 2x^4 - 12x^3 - 20x^2 + 15x + 20$$
$$x^7 + 6x^6 + 7x^5 - 6x^4 - 4x^3 - 5x^2 - 7x + 20$$
$$x^7 + 5x^6 - x^5 + 24x^4 - 12x^3 + 7x^2 + 15x + 3$$
$$x^7 - 9x^6 + 13x^5 + 31x^4 + 13x^3 + 19x^2 + 9x + 3$$
$$x^7 - 3x^6 - 5x^5 + 4x^4 + 5x^3 + 18x^2 - 4x - 10$$
$$x^7 - 18x^5 + 29x^4 - 33x^3 + 31x^2 - 14x + 2$$
$$x^7 - 5x^6 + 8x^5 - 25x^4 + 14x^3 - 22x^2 + 11x - 4$$
$$x^7 + 2x^6 - 9x^5 - 12x^3 - x^2 + 19x - 20$$
$$x^7 - 7x^6 + 15x^5 - 13x^4 - 3x^3 + 7x^2 - 6x + 12$$
$$x^7 - 31x^5 - 13x^4 + 17x^3 + 25x - 15$$
$$x^7 - 3x^6 - 2x^5 - 11x^4 + 17x^3 + 5x^2 + 10x - 15$$
$$x^7 + 7x^6 + 8x^5 + 10x^4 + 13x^3 - 19x^2 + 9x + 15$$
$$x^7 - 9x^6 + 19x^5 + 7x^4 - 13x^3 + 7x^2 - 8x + 2$$
$$x^7 - 7x^6 + 15x^5 - 19x^4 + 27x^3 - 16x^2 + 7x + 4$$
$$x^7 - 6x^6 + 8x^5 + 4x^4 + 3x^3 - 16x^2 - 13x + 10$$
$$x^7 + 6x^6 + 5x^5 - 4x^4 + 12x^3 + 4x^2 + 8x - 16$$
$$x^7 - 2x^6 - 15x^5 - 3x^4 + 35x^3 + 29x^2 - 5x - 12$$
$$x^7 - x^6 - 6x^5 + 4x^4 + 14x^3 - x^2 - 17x - 12$$
$$x^7 - 3x^6 + 4x^5 - 11x^4 + 10x^3 - 5x^2 + 17x - 12$$
$$x^7 - 3x^6 - 2x^5 + 2x^4 + x^3 - 11x^2 - 25x - 5$$
$$x^7 + x^6 - 9x^5 - 33x^4 - 14x^3 - 11x^2 + 30x - 5$$
$$x^7 + 8x^6 + 17x^5 + 7x^4 + x^3 - 16x^2 + 12x - 10$$
$$x^7 + x^6 - x^5 + 11x^4 - 13x^3 + 20x^2 - 26x + 10$$
$$x^7 - x^6 + 3x^5 + 2x^3 - 4x^2 - 5x - 5$$
$$x^7 + 2x^6 - 12x^5 - 17x^4 - 26x^3 - 28x^2 - 12x - 12$$
$$x^7 + 2x^6 - 2x^5 - 2x^4 - 8x^3 + 31x^2 - 25x + 5$$
$$x^7 + x^6 - 5x^5 - 10x^4 + 6x^3 - 3x^2 - 10x + 12$$
$$x^7 + 4x^6 - 9x^5 - 20x^4 + 8x^3 + 14x^2 - x - 2$$
$$x^7 - 24x^5 + 18x^4 - 40x^3 - 3x^2 - 7x - 15$$
$$x^7 - 3x^6 + 12x^5 - 24x^4 + 42x^3 - 53x^2 + 40x - 20$$
$$x^7 - 2x^6 + 4x^5 + x^4 - 4x^3 + 5x^2 + 13x + 6$$

$$x^7 - 8x^6 + 24x^5 - 34x^4 + 25x^3 - 18x^2 + 6x - 4$$
$$x^7 - 4x^6 - 2x^5 - 4x^4 - 18x^2 - 13x - 20$$
$$x^7 + x^6 - x^5 + 9x^4 + 6x^3 - 28x^2 + 5x + 5$$
$$x^7 - x^6 - 16x^5 + 14x^4 - 18x^3 + 8x^2 - 8x - 8$$
$$x^7 + 6x^6 + 4x^5 - 3x^4 - 10x^3 + 7x^2 - 3x - 12$$
$$x^7 - x^5 - 3x^4 - 16x^3 + 24x^2 - 24x + 4$$
$$x^7 - 8x^6 + 15x^5 - 6x^4 + 2x^3 + 10x^2 + 5x + 2$$
$$x^7 - x^6 - 11x^5 + 8x^4 + 6x^3 - 32x^2 + 4x + 16$$
$$x^7 - x^6 - 4x^4 - 9x^3 + 9x^2 - 8x + 4$$
$$x^7 + 6x^6 + 5x^5 + 2x^4 + 4x^3 - 9x^2 + 10x - 5$$
$$x^7 - 5x^6 + x^5 - x^4 - 7x^3 + 2x^2 - 6x + 6$$
$$x^7 - 3x^6 - 6x^5 + 6x^4 + 21x^3 + 13x^2 + 6x - 2$$
$$x^7 - 6x^6 + 6x^5 + x^4 - 13x^3 - 28x^2 - 18x - 6$$
$$x^7 - 3x^6 - 2x^5 + 4x^4 - 6x^3 - x^2 + 4x - 4$$
$$x^7 + 5x^6 + 4x^5 - 2x^4 + 5x^3 + 4x^2 - 3x + 4$$
$$x^7 + 2x^6 - 17x^5 + 22x^4 - 52x^3 + 10x^2 - 9x - 20$$
$$x^7 - 18x^5 - 28x^4 - 28x^3 + 8x^2 + 28x - 5$$
$$x^7 + 4x^6 - 3x^5 - 15x^4 - 23x^3 - 24x^2 + 3x + 9$$
$$x^7 - 5x^5 + 19x^4 - 5x^3 - 33x^2 + 14x + 15$$
$$x^7 - 2x^6 - 11x^4 + 23x^3 - 6x^2 - 15x + 15$$
$$x^7 - 4x^6 - 5x^5 + 5x^4 - 7x^2 - 6x + 8$$
$$x^7 - 3x^6 - 13x^5 - 26x^4 + 4x^3 - 16x^2 - 16x - 15$$
$$x^7 + x^6 - 26x^5 + 13x^4 + 26x^3 + 14x^2 - 3x - 10$$
$$x^7 + 9x^6 + 14x^5 - 29x^4 - 8x^3 - 14x^2 + 16x + 12$$
$$x^7 - 5x^6 - 6x^5 + 15x^4 + 6x^3 - 7x + 2$$
$$x^7 - 4x^6 + 6x^5 + 11x^4 - 34x^3 + 27x^2 + 5x - 20$$
$$x^7 - x^6 - 7x^5 + 7x^4 - 4x^3 + 18x^2 + 2x + 8$$
$$x^7 - x^6 - 19x^5 - 29x^4 + 20x^3 + 27x^2 + 20x - 25$$
$$x^7 - 3x^6 - 4x^5 + 14x^4 - 25x^3 + 7x^2 - 5x - 25$$
$$x^7 - x^6 - x^5 + 2x^4 - 19x^3 - 3x^2 + 25x + 12$$
$$x^7 + x^6 - 19x^5 + 17x^4 + 36x^3 + 16x^2 - 15x - 10$$
$$x^7 - 2x^6 + 2x^5 + 3x^4 - 13x^2 - 9x + 9$$
$$x^7 + 4x^6 + 7x^5 + 9x^4 + 13x^3 + 12x^2 + 6x + 8$$
$$x^7 - x^6 - 20x^5 + 30x^4 - 7x^3 + 7x^2 - 4x + 6$$
$$x^7 - 9x^6 + 27x^5 - 29x^4 + x^3 + 21x^2 - 15x + 4$$
$$x^7 + x^6 + x^5 - 6x^4 + 9x^3 + 22x^2 - 12x - 4$$
$$x^7 + 9x^6 + 17x^5 - 18x^4 - 15x^3 + 7x^2 + 9x - 6$$
$$x^7 + 9x^6 + 21x^5 - 2x^4 - 33x^3 - 8x^2 + 12x + 3$$
$$x^7 + x^6 - 12x^5 + 10x^4 + 9x^3 + 16x^2 + 25x + 20$$
$$x^7 - 2x^6 - 9x^5 + 6x^4 + 30x^3 - 5x^2 + 5x - 20$$
$$x^7 - x^6 - 16x^5 - 32x^4 + 2x^3 - 8x^2 + x - 1$$
$$x^7 + 4x^6 - 9x^5 - 15x^4 + 15x^3 + 10x^2 - 21x + 9$$
$$x^7 + 4x^6 + 4x^5 + 26x^4 + 16x^3 + 4x^2 + 4x + 1$$
$$x^7 - 2x^6 - 18x^5 + 27x^4 + 23x^3 - 40x^2 + 5x + 5$$
$$x^7 + 4x^6 + 8x^5 + 13x^4 + 3x^3 - 6x^2 - 3x - 9$$
$$x^7 + 4x^6 - 11x^5 - 13x^4 + 14x^3 - 7x^2 + 4x + 4$$
$$x^7 - 5x^6 + 12x^5 - 19x^4 + 9x^3 + x^2 - 18x - 5$$
$$x^7 + 4x^6 - x^5 + 4x^4 - 35x^3 - x^2 + 27x + 9$$
$$x^7 + 8x^6 + 12x^5 - 11x^4 + 29x^3 + 10x^2 - 6x + 20$$
$$x^7 - 3x^6 + 6x^4 + 6x^3 - 7x^2 - 11x - 2$$
$$x^7 + 4x^6 - 2x^5 + 6x^3 - 12x^2 + 4$$
$$x^7 - 16x^5 - 14x^4 - 32x^3 - 32x^2 - 23x - 12$$
$$x^7 - 5x^6 + x^5 - 2x^4 + 24x^3 - 24x^2 - 4x + 8$$
$$x^7 + x^6 - 2x^5 - 13x^4 - 27x^3 - 26x^2 - 18x - 6$$
$$x^7 + 3x^6 - 8x^4 - 8x^3 + 15x^2 + 10$$
$$x^7 - 3x^6 - 4x^5 - 11x^4 + 21x^3 + 5x^2 + 6x + 15$$
$$x^7 + x^6 - 4x^5 - 8x^4 + 2x^3 + 5x^2 - 12x - 20$$
$$x^7 + 3x^6 - 4x^4 - 3x^3 - 3x^2 + 2x - 4$$
$$x^7 + 3x^6 - 10x^5 - 11x^4 + 22x^3 - 8x^2 - 8x + 6$$
$$x^7 - x^6 - 21x^5 + x^4 + 7x^3 + 19x^2 + 8x - 16$$
$$x^7 - 2x^6 - 13x^5 + 7x^4 - 17x^3 + 24x^2 - 10x + 4$$
$$x^7 + 5x^6 - x^5 + 21x^4 + 2x^3 - 22x^2 - 22x - 6$$
$$x^7 - x^6 + x^5 - 3x^4 - 16x^3 + 11x^2 + 20x + 5$$
$$x^7 + 4x^6 - 2x^4 - 15x^3 - 8x^2 + 11x + 6$$
$$x^7 - 3x^6 - 2x^5 + 7x^4 - 7x^3 + 19x^2 + 12x - 3$$
$$x^7 - 6x^6 + 9x^5 - 10x^4 + 9x^3 + x^2 + x + 5$$
$$x^7 - 5x^6 - 2x^5 + 3x^4 + 9x^3 - 13x^2 - 2x - 3$$
$$x^7 - x^6 - 4x^5 - 3x^3 - x^2 + 3x - 5$$
$$x^7 - 9x^6 + 23x^5 - 8x^4 - 22x^3 + 23x^2 + 3x - 5$$
$$x^7 - x^6 - 5x^5 - 4x^4 + 6x^3 + 22x^2 + 18x + 8$$
$$x^7 + x^6 - 18x^5 + 36x^4 - 16x^3 - x^2 + 21x - 15$$
$$x^7 - 2x^6 + 5x^5 - 6x^4 + 2x^3 - x^2 - 7x - 2$$
$$x^7 - 2x^6 - 12x^5 - 27x^4 + 12x^3 + 33x^2 + 5x - 2$$
$$x^7 + 4x^6 + 2x^5 - x^4 - 7x^3 - 11x^2 - 14x - 8$$
$$x^7 - x^6 + x^5 - 10x^4 + 24x^3 + 15x^2 + 4x - 4$$
$$x^7 + 6x^6 + 4x^5 - 13x^4 + x^3 - 7x^2 + 31x - 12$$
$$x^7 - 3x^6 - 7x^5 - 26x^4 + 7x^3 + 30x^2 + 16x - 4$$
$$x^7 - 3x^6 - 8x^5 - 35x^4 - 4x^3 + 6x^2 + 29x - 10$$
$$x^7 - x^6 - 2x^5 + 10x^4 - 17x^3 + 28x - 20$$
$$x^7 + 2x^6 + x^5 + 18x^4 - 16x^3 + 19x^2 - 7x - 4$$
$$x^7 + 5x^6 + 6x^5 - 3x^4 - 12x^3 - 16x^2 - 7x - 4$$
$$x^7 - x^6 - 5x^5 + 8x^4 + 24x^3 - 13x^2 - 12x + 6$$
$$x^7 - 6x^6 + 9x^5 - x^4 - 7x^3 + 8x^2 - 11x + 10$$
$$x^7 + x^6 + 3x^5 - x^4 - 6x^3 - x^2 - 16x + 15$$

4.3 일계수 칠차식 3형

$$x^7 - 6x^6 + 6x^5 + 15x^4 - 16x^3 - 7x^2 - 13x + 12$$
$$x^7 + 9x^6 + 16x^5 - 21x^4 - 5x^3 + 14x^2 + 8x - 2$$
$$x^7 + 3x^6 - 16x^5 - 21x^4 + 13x^3 + 28x^2 + 24x + 8$$
$$x^7 - 7x^6 + 9x^5 + 9x^4 - 8x^3 + x^2 + 24x - 5$$

$$x^7 - 2x^6 - 2x^5 + 4x^4 + 7x^3 - 7x^2 - 12x + 6$$
$$x^7 + 3x^6 - 6x^5 + 23x^4 + 4x^3 - 27x^2 + 15x - 25$$
$$x^7 - 5x^6 + 7x^5 - x^4 + 2x^3 - 11x^2 - 4x + 3$$
$$x^7 + x^6 - 2x^5 - 9x^4 - 12x^3 - 13x^2 - 10x - 6$$
$$x^7 - 5x^6 + 4x^5 + 9x^4 - 11x^3 + 12x + 4$$
$$x^7 + 3x^6 - 4x^5 - 2x^4 - 9x^3 - 4x + 5$$
$$x^7 + 4x^6 + 7x^5 + 9x^4 - 15x^3 - 35x^2 - 30x - 25$$
$$x^7 - 4x^6 + 2x^5 - 21x^4 + 9x^3 + 23x^2 + 2x - 2$$
$$x^7 - x^6 + 2x^5 - 10x^4 - 5x^3 - x^2 - 10x - 4$$
$$x^7 + 5x^6 + 3x^5 + 2x^4 - 12x^3 + x^2 + 12x + 4$$
$$x^7 + 4x^6 - 6x^5 - 31x^4 - 13x^3 + x^2 - 21x + 20$$
$$x^7 + 5x^6 + 9x^5 + 24x^4 + 20x^3 - x^2 + 20$$
$$x^7 - 5x^6 + 4x^5 - 12x^4 - 2x^3 + 28x^2 + 19x + 3$$
$$x^7 + x^6 - 6x^5 + 20x^4 - 41x^3 + 26x^2 + 17x - 20$$
$$x^7 - x^6 - 19x^5 + 18x^4 + 26x^3 - 4x^2 - 8x - 20$$
$$x^7 - 4x^6 - 6x^5 + 20x^4 + 18x^3 - 5x^2 + 6x + 5$$
$$x^7 - 5x^6 + 6x^5 - 27x^4 + 7x^3 - 9x^2 + 10x + 5$$
$$x^7 + 5x^6 + 2x^5 - 13x^4 - 13x^3 - 9x^2 + 2x + 1$$
$$x^7 + 6x^6 + 6x^5 + x^4 + 14x^3 + 15x^2 + x - 12$$
$$x^7 - x^6 - 8x^5 - 9x^4 - 14x^2 - 24x - 15$$
$$x^7 + 4x^6 - 3x^5 - 20x^4 - 15x^3 - 3x^2 + 25x + 15$$
$$x^7 + 4x^6 - x^5 + 17x^4 - 2x^3 - 6x^2 - 21x + 4$$
$$x^7 + 5x^6 + 5x^5 + 6x^4 - 4x - 1$$
$$x^7 - 4x^6 + 2x^5 - x^4 + 9x^3 - 18x^2 - 6x + 8$$
$$x^7 - 6x^6 + 13x^5 - 30x^4 + 27x^3 - 15x^2 + x + 3$$
$$x^7 - x^6 - x^5 - 15x^4 - 26x^3 - 8x^2 - 23x + 10$$
$$x^7 - 3x^6 - 16x^5 + 22x^4 + 7x^3 + 12x^2 - 22x + 5$$
$$x^7 + 9x^6 + 21x^5 - x^4 - 21x^3 - 10x^2 - 5x - 3$$
$$x^7 + 4x^6 + 6x^5 - 9x^3 - 5x^2 + 7x + 20$$
$$x^7 + 2x^6 + 2x^5 + 15x^4 + 14x^3 + 25x^2 - x - 10$$
$$x^7 + 3x^6 - 8x^5 - 3x^4 - 20x^2 + 5x + 6$$
$$x^7 + 9x^6 + 20x^5 - 2x^4 - 11x^3 + 6x^2 - 25x - 20$$
$$x^7 - 3x^6 - 11x^5 + 9x^4 + 17x^3 - 24x^2 + 9x - 1$$
$$x^7 - 4x^6 - 6x^5 + 7x^4 + 8x^3 + 11x^2 + 3x + 12$$
$$x^7 - 6x^6 + 15x^5 - 21x^4 + 14x^3 + x^2 + 6x + 20$$
$$x^7 - 2x^6 - 3x^5 - 2x^4 - 3x^3 - 12x^2 - 10x - 2$$
$$x^7 + 2x^6 - 3x^5 - 10x^4 + x^3 + 6x^2 + 13x + 10$$
$$x^7 - 3x^6 + 10x^5 - 14x^4 + 19x^3 - 7x^2 + 9$$
$$x^7 - 4x^6 - 5x^5 + 19x^4 + 16x^3 + x^2 + 6x - 4$$
$$x^7 - 3x^6 + 5x^5 - 5x^4 + 3x^3 + 15x^2 - 9x + 9$$
$$x^7 - x^6 - 18x^5 + 31x^4 + 10x^3 - 41x^2 + 5x + 20$$
$$x^7 + 9x^6 + 15x^5 - 22x^4 + 10x^3 + 16x^2 - 32x + 12$$
$$x^7 + 3x^6 - 10x^5 - 31x^4 - 9x^3 - 4x^2 - 40x - 20$$
$$x^7 + 3x^6 + 2x^5 - x^4 - 17x^3 - 21x^2 + 11x + 20$$
$$x^7 + 9x^6 + 14x^5 - 22x^4 + 24x^3 - 33x^2 + 31x - 12$$
$$x^7 + 5x^6 + 4x^5 + 5x^4 - 2x^3 - 5x^2 - 7x - 4$$
$$x^7 - 7x^6 + 12x^5 + x^4 - 12x^3 + 14x^2 - 13x - 4$$
$$x^7 + 9x^6 + 20x^5 - x^4 + x^3 + 11x^2 + 10x - 3$$
$$x^7 + 8x^6 + 24x^5 + 40x^4 + 30x^3 + 14x^2 - 7x - 20$$
$$x^7 + x^6 - 4x^5 + 4x^4 + 12x^3 - 10x^2 - 11x - 3$$
$$x^7 - x^6 - 7x^5 + 2x^4 - 3x^3 + 4x^2 + 11x - 5$$
$$x^7 + 5x^6 - 20x^4 - 7x^3 + 3x^2 + 18x - 8$$
$$x^7 + 4x^6 + 3x^5 - 5x^4 - 15x^3 - 19x^2 - 24x - 5$$
$$x^7 - 4x^6 - 3x^5 + 16x^4 + 5x^3 - 13x^2 + 15x + 25$$
$$x^7 + 5x^6 + 5x^5 - 28x^3 - 12x^2 - 8x + 16$$
$$x^7 - 4x^6 - x^5 - 30x^4 - 13x^3 - 27x^2 - 23x - 15$$
$$x^7 - 7x^6 + 19x^5 - 28x^4 + 10x^3 + 6x^2 + 20x - 20$$
$$x^7 - 7x^6 + 9x^5 + 11x^4 + 3x^3 - 12x^2 - 7x - 1$$
$$x^7 - 2x^6 - 8x^5 + 9x^4 + 4x^3 - 6x^2 - x + 1$$
$$x^7 + x^5 - 8x^4 - 18x^3 + 6x^2 + 6x - 9$$
$$x^7 - 12x^5 + 4x^4 - 17x^3 + 7x^2 + 6$$
$$x^7 + x^6 + 4x^5 - 6x^3 + 14x^2 + x - 5$$
$$x^7 + 8x^6 + 15x^5 - 2x^4 - 10x^3 + 8x^2 + 12x + 3$$
$$x^7 - 2x^5 + 7x^4 + 26x^3 + 14x^2 - 6x - 12$$
$$x^7 - 6x^6 + 12x^5 - 9x^4 - 10x^3 + x^2 - 3x - 2$$
$$x^7 + x^6 - 21x^5 + 12x^4 - 2x^3 + 19x^2 - 20x + 4$$
$$x^7 + 2x^6 - 21x^5 - 7x^4 - 18x^2 + 7x + 3$$
$$x^7 - 2x^6 - 11x^5 + 5x^4 + 16x^3 + x^2 + 4x - 12$$
$$x^7 - 2x^6 - 16x^5 - 7x^4 - 20x^3 - 23x^2 + 21x + 10$$
$$x^7 + 3x^6 - 11x^5 - 37x^4 - 8x^3 + 16x^2 - 28x - 20$$
$$x^7 + x^6 - 13x^5 + 31x^4 - 16x^3 - 8x^2 + 4x + 16$$
$$x^7 + 2x^6 - 13x^5 - 15x^4 + 8x^3 + 5x^2 - 18x - 20$$
$$x^7 + 2x^5 + 5x^4 + x^3 + 11x^2 + 12x - 12$$
$$x^7 - 5x^6 - x^5 + 7x^4 + 9x^3 - 5x^2 + 16x + 20$$
$$x^7 - x^6 + 3x^5 - 5x^4 - 9x^3 - 3x^2 + 5x - 15$$
$$x^7 - 5x^6 - x^5 + 20x^4 + 5x^3 - 7x^2 + 22x + 20$$
$$x^7 + 3x^6 + 5x^5 - x^4 + 2x^3 - 2x^2 + 3x - 2$$
$$x^7 - 2x^6 - 14x^5 + 18x^4 - 10x^3 + 4x^2 + 17x - 10$$
$$x^7 - x^6 - 23x^5 - 7x^4 + 26x^3 - 15x^2 + 7x + 6$$
$$x^7 - 2x^6 - 15x^5 - 28x^4 - 33x^3 - 28x^2 - 27x - 12$$
$$x^7 + 2x^6 - 16x^5 - 18x^4 - 4x^3 - 5x^2 - 11x + 15$$
$$x^7 + 5x^6 + 2x^5 - 3x^4 - 22x^3 + 5x^2 + 29x - 15$$
$$x^7 - 3x^6 - 6x^5 + 5x^4 + x^3 - 5x^2 + x + 1$$
$$x^7 + 7x^6 + 12x^5 - 9x^4 - 33x^3 + 35x^2 - 11x - 15$$
$$x^7 + x^6 - 2x^4 - 13x^3 - x^2 - 14x + 3$$
$$x^7 + 7x^6 + 10x^5 - 11x^4 - 16x^3 - 13x^2 - x + 2$$
$$x^7 - 4x^6 - 4x^5 + 18x^4 + 4x^3 - 5x^2 + 18x - 8$$
$$x^7 - 7x^6 + 8x^5 + 5x^4 + 13x^3 + 5x^2 - 8x - 2$$
$$x^7 - 4x^5 - 5x^4 + 3x^3 + 13x^2 - x - 4$$
$$x^7 - 4x^6 + 5x^5 - 8x^4 + 5x^3 + 13x^2 - 3x + 3$$
$$x^7 + 3x^6 - 3x^5 + 13x^4 + 17x^3 - 8x^2 + 8x + 8$$
$$x^7 - 4x^6 + 11x^5 - 19x^4 + 20x^3 - 8x^2 + 3x + 3$$
$$x^7 - 2x^6 - 16x^5 + 33x^4 - 32x^3 + 7x^2 + 25x - 15$$
$$x^7 - 8x^6 + 12x^5 + 20x^4 - 12x^3 - 8x^2 - 19x + 10$$

$$x^7+5x^6+2x^5+x^4+2x^3+6x^2+6x+1$$
$$x^7-7x^6+15x^5-10x^4+2x^3-5x^2+15x-5$$
$$x^7+7x^6+6x^5-24x^4-4x^3-20x^2+x+1$$
$$x^7-9x^6+26x^5-24x^4+2x^3-2x^2-3x+1$$
$$x^7-6x^6+4x^5+10x^4+7x^3-3x^2-14x-5$$
$$x^7-x^6-6x^5+2x^4+11x^2+2x-6$$
$$x^7+3x^6+5x^5+7x^4+7x^3+x^2-2x-4$$
$$x^7+2x^6-15x^5-35x^4-37x^3-36x^2-9x+10$$
$$x^7+x^6-6x^5-19x^4-14x^3+2x^2-x+4$$
$$x^7+x^6-7x^5+5x^4+13x^3-14x^2+9x+3$$
$$x^7+9x^6+22x^5+4x^4-16x^3+14x^2-13x+3$$
$$x^7+2x^6-14x^5-22x^4+14x^3+16x^2-x+10$$
$$x^7-12x^5+9x^4+2x^3-23x^2-21x-4$$
$$x^7-3x^6-10x^5-7x^4-5x^3+22x^2-6x-2$$
$$x^7-3x^6-6x^5-5x^4-10x^3-6x^2-19x-12$$
$$x^7+x^6+4x^5+3x^4+7x^3-11x^2-13x-12$$
$$x^7-3x^6-2x^5-10x^3+30x^2-25x+25$$
$$x^7-3x^6-9x^5+3x^4-8x^3+19x^2-18x+3$$
$$x^7+4x^6+x^5-7x^4-15x^3-35x^2+20x+25$$
$$x^7+x^6-11x^5-16x^4-2x^3+11x^2+24x+10$$
$$x^7+5x^6+4x^5-3x^4+3x^3-10x^2-6x+4$$
$$x^7-2x^5+14x^4-2x^3+21x^2+25$$

4.4 일계수가 아닌 칠차식 1형

$$12x^7-25x^6-118x^5-93x^4+31x^3+124x^2-25x-10$$
$$25x^7-45x^6+94x^5-67x^4+132x^3-86x^2+31x-60$$
$$80x^7+128x^6+27x^5+82x^4-67x^3+76x^2-26x+8$$
$$12x^7-28x^6-39x^5+67x^4+10x^3-28x^2+25x-15$$
$$4x^7-5x^6-20x^5+59x^4-51x^3-42x^2+49x+30$$
$$25x^7-55x^6+28x^5+6x^4-14x^3-7x^2+16x+6$$
$$32x^7+72x^6+104x^5+104x^4-37x^3-86x^2-23x+10$$
$$50x^7+10x^6-77x^5+51x^4-3x^3-117x^2+9x+27$$
$$60x^7-133x^6-93x^5+231x^4+131x^3-104x^2-104x-24$$
$$10x^7+49x^6+31x^5-48x^4+44x^3-25x^2-37x+12$$
$$12x^7+40x^6-43x^5-161x^4-6x^3+158x^2+40x-25$$
$$15x^7+81x^6+77x^5-99x^4-89x^3+31x^2-40x-20$$
$$3x^7-28x^6+69x^5-37x^4+76x^3-45x^2+92x+20$$
$$15x^7-28x^6+22x^5+71x^4-113x^3+80x^2+4x-15$$
$$6x^7+6x^6-13x^5-16x^4-6x^3-x-1$$
$$40x^7-4x^5+26x^4-42x^3+7x^2+17x-10$$
$$40x^7+112x^6+120x^5-27x^4-113x^3-130x^2-95x-75$$
$$24x^7+86x^6+108x^5+95x^4+126x^3+136x^2+82x+15$$
$$16x^7+16x^6-37x^5-24x^4+7x^3-18x^2+6x+4$$
$$45x^7-66x^6+72x^5+14x^4-88x^3+108x^2-56x+16$$
$$10x^7+18x^6-43x^5-55x^4+30x^3+51x^2-5x-12$$
$$10x^7+26x^6-19x^5+96x^4+20x^3-33x^2+85x+25$$
$$5x^7+x^6-131x^5-102x^4+x^3+39x^2+17x+2$$
$$6x^7+12x^6+29x^5-19x^4-37x^3-78x^2+16x+15$$
$$50x^7-17x^5+36x^4-18x^3+22x^2+7x-20$$
$$20x^7+37x^6-47x^5+3x^4+3x^3+10x^2-2x-4$$
$$60x^7+52x^6-101x^5-22x^4-249x^3+205x^2+60x-45$$
$$36x^7-39x^6-75x^5-65x^4+41x^3+114x^2+92x+40$$
$$10x^7+18x^6-58x^5-119x^4+29x^3+120x^2+9x-27$$
$$45x^7-96x^6+36x^5-135x^4+121x^3+51x^2-90x+50$$
$$30x^7+43x^6+112x^5+60x^4+94x^3-9x^2+42x-36$$
$$32x^7+16x^6-86x^5+264x^4-253x^3+208x^2-50x-75$$
$$80x^7+168x^6+41x^5-106x^4-133x^3-68x^2+42x+24$$
$$15x^7-50x^6-4x^5+121x^4-47x^3-88x^2+40x+25$$
$$2x^7+6x^6-19x^5-13x^4+50x^3+35x^2-63x-30$$
$$8x^7-30x^6-4x^5+87x^4-25x^3-9x^2-31x-60$$
$$30x^7+49x^6-56x^5-150x^4-102x^3+109x^2+148x+60$$
$$32x^7+16x^6-102x^5+26x^4+21x^3-175x^2+85x+25$$
$$20x^7-25x^6+77x^5-88x^4-22x^3+44x^2-40x-16$$
$$24x^7-74x^6+50x^5-115x^4+46x^3-6x^2+95x+50$$
$$15x^7-54x^6-64x^5-57x^4-65x^3+32x^2-14x+15$$
$$16x^7-80x^5-72x^4-109x^3-110x^2+20x-25$$
$$100x^7-120x^6-165x^5+114x^4+74x^3-28x^2-9x+2$$
$$60x^7+7x^5+3x^4-54x^3-13x^2+15x+4$$
$$25x^7-40x^6-25x^5+94x^4+162x^3+136x^2+64x+16$$
$$8x^7-44x^6+84x^5-54x^4-26x^3+50x^2-15x-6$$
$$2x^7-20x^6+59x^5-68x^4+50x^3-48x^2+53x-15$$
$$20x^7-40x^6+147x^5-117x^4+109x^3+81x^2-95x+75$$
$$8x^7+2x^6-18x^5+19x^4+151x^3+225x^2+38x-40$$
$$20x^7+63x^6-156x^5+5x^4-3x^3+14x^2+13x+2$$
$$125x^7-25x^6-230x^5+86x^4+17x^3-65x^2-24x+36$$
$$40x^7+124x^6+62x^5+237x^4+36x^3+188x^2+9x+60$$
$$16x^7+36x^6-82x^5-74x^4+88x^3+63x^2-25x-20$$
$$60x^7+15x^6-92x^5+147x^4+x^3-90x^2+3x+12$$
$$100x^7-30x^6+207x^5+55x^4+125x^3+95x^2+48x+30$$
$$6x^7-14x^6+9x^5-21x^4+12x^3+10x^2+18x+15$$
$$20x^7-4x^6-63x^5-53x^4-45x^3-25x^2-7x-3$$
$$10x^7-10x^6-65x^5+11x^4+88x^3+23x^2+30x+30$$
$$9x^7+27x^6+47x^5+54x^4+42x^3+22x^2+4x+20$$
$$6x^7-26x^6+25x^5+33x^4-108x^3+86x^2+20x-15$$
$$60x^7+149x^6+201x^5+231x^4+224x^3+149x^2+56x+10$$
$$32x^7-72x^6-60x^5+50x^4+123x^3+97x^2+35x+20$$
$$4x^7+4x^6-x^5-x^4+4x^3+19x^2-7x-4$$
$$15x^7+68x^6-19x^5-113x^4-18x^3+9x^2+76x-30$$
$$60x^7+148x^6+63x^5-11x^4-37x^3-87x^2-33x+9$$
$$50x^7-185x^6+30x^5+144x^4+149x^3-42x^2-128x-32$$

$$6x^7+36x^6+15x^5+10x^4+47x^3-78x^2+57x-18$$
$$20x^7+60x^6+45x^5-21x^4+41x^3-100x^2+20x+25$$
$$50x^7+35x^6-65x^5-37x^4-82x^3+37x^2+48$$
$$8x^7-30x^6-5x^5+63x^4-25x^3-16x^2+52x+16$$
$$10x^7+21x^6-141x^5-44x^4+283x^3-49x^2-146x+60$$
$$5x^7-3x^6-6x^5-29x^4-26x^3+35x^2+21x+18$$
$$12x^7+24x^6-2x^5-42x^4-40x^3-19x^2-17x-6$$
$$20x^7+28x^6-91x^5+73x^4-65x^3-15x^2+50x-12$$
$$6x^7-12x^6-25x^5+21x^4+39x^3+9x^2-7x-3$$
$$12x^7-23x^6+81x^5-67x^4+107x^3-13x^2+63x+36$$
$$10x^7-13x^6-69x^5+91x^4-6x^3+6x^2+16x-8$$
$$8x^7-16x^6-10x^5+6x^4-15x^3+14x^2+33x+10$$
$$24x^7-10x^6+68x^5-25x^4+66x^3-18x^2+19x-4$$
$$10x^7-20x^6-51x^5+42x^4+68x^3+95x^2+36x+30$$
$$10x^7+15x^6-98x^5+155x^4-118x^3+2x^2+18x-24$$
$$100x^7+30x^6-123x^5+50x^4+29x^3-36x^2+15x-2$$
$$3x^7-4x^6+11x^5-25x^4-2x^3-49x^2-24x-30$$
$$16x^7-20x^6+42x^5-17x^4+37x^3+28x^2+6x+40$$
$$16x^7+48x^6+124x^5+156x^4+146x^3+31x^2-21x-45$$
$$3x^7+2x^6-x^5+10x^4-22x^3+38x^2-32x+8$$
$$12x^7+25x^6+20x^5-11x^4+83x^2+24x-9$$
$$125x^7+125x^6-200x^5-75x^4+105x^3-40x^2-20x+16$$
$$4x^7+8x^6-25x^5-10x^4-6x^3-21x^2-4x+12$$
$$100x^7-5x^6+156x^5+67x^4+137x^3+122x^2+36x+80$$
$$2x^7+10x^6+3x^5-47x^4-106x^3-111x^2-35x+20$$
$$45x^7-15x^6-97x^5-59x^4+38x^3+88x^2+56x+16$$
$$4x^7-27x^6+39x^5-57x^4+20x^3-8x^2+3x-2$$
$$30x^7-37x^6-14x^5+20x^4+30x^3+33x^2-42x-36$$
$$30x^7+85x^6+93x^5+88x^4+52x^3+21x^2-2x-3$$
$$10x^7+38x^6+98x^5+183x^4+135x^3+133x^2+66x+30$$
$$15x^7+65x^6-147x^5-152x^4+133x^3+140x^2-20x-48$$
$$20x^7+60x^6-105x^5-16x^4-88x^3-105x^2+9x+5$$
$$20x^7+29x^6-142x^5-44x^4+100x^3+118x^2+40x-25$$
$$45x^7+12x^6-51x^5-32x^4-98x^3-4x^2-8x+16$$
$$6x^7-29x^6+30x^5-5x^4-27x^3+98x^2-53x+60$$
$$27x^7+36x^6+33x^5-4x^4-67x^3-148x^2-129x-36$$
$$30x^7-44x^6-107x^5+185x^4-12x^3-129x^2+104x-30$$
$$24x^7+18x^6-23x^5+38x^4+22x^3+16x^2-27x-12$$
$$8x^7+8x^5-13x^4+35x^3+21x^2-16x+2$$
$$12x^7+16x^6-37x^5-51x^4+6x^3+27x^2+33x+10$$
$$36x^7-9x^6+2x^5+94x^4-17x^3+16x^2+23x+15$$
$$4x^7+16x^6+55x^5+113x^4+140x^3+120x^2-50x-125$$
$$10x^7-26x^6+27x^5-18x^4-68x^3+72x^2-85x+25$$
$$75x^7-130x^6+51x^5-32x^4-35x^3+21x^2+x-1$$
$$45x^7+3x^6-256x^5-87x^4+287x^3+36x^2-98x+20$$
$$9x^7-45x^6-13x^5+129x^4-114x^3-176x^2+88x+80$$
$$45x^7+24x^6+30x^5-19x^4+8x^2-4$$
$$10x^7+49x^6+7x^5-75x^4+44x^3-95x^2-85x+25$$
$$80x^7-36x^6-134x^5+59x^4+74x^3-9x^2-20x-4$$
$$32x^7+16x^6-154x^5-87x^4+204x^3+187x^2-90x-100$$
$$10x^7-46x^6+117x^5-209x^4+252x^3-198x^2+40x+25$$
$$15x^7+74x^6+77x^5-26x^4-9x^3-25x^2-11x-5$$
$$50x^7-5x^6-50x^5+134x^4-88x^3-128x^2+130x-25$$
$$15x^7+65x^6+83x^5+8x^4-29x^3+29x^2-9x+6$$

4.5 일계수가 아닌 칠차식 2형

$$5x^7-17x^6+36x^5-26x^4+20x^3+13x^2+x+4$$
$$2x^7-23x^5-6x^4+15x^3-35x^2+27x-10$$
$$20x^7+x^6+6x^5-11x^4+26x^3-21x^2+12x-5$$
$$5x^7-3x^6+15x^5+33x^4+32x^3+30x^2+28x+16$$
$$6x^7-4x^6-5x^5-24x^4-2x^3-4x^2+3x-6$$
$$20x^7+3x^6+16x^5+53x^4+22x^3+17x^2+40x+16$$
$$12x^7-16x^6+3x^5+12x^4-11x^3-3x^2+14x-3$$
$$3x^7-11x^6-9x^5+x^4-8x^3-27x^2+28x+15$$
$$10x^7-8x^6-6x^5+x^4-x^3-x-1$$
$$25x^7-25x^6-10x^5-5x^4-3x^3-3x^2-4x+1$$
$$8x^7+14x^6-3x^5-17x^4-2x^3+10x^2-8x-15$$
$$3x^7+3x^6+3x^5-4x^4-22x^3+16x^2-16x+16$$
$$8x^7+26x^6+37x^5+30x^4+17x^3+4x^2-x-2$$
$$5x^7-24x^6-22x^5-39x^4-67x^3-40x^2-40x-25$$
$$10x^7+x^6+2x^5+30x^4-5x^3-24x^2-14x-8$$
$$20x^7-7x^6-3x^5+46x^4-50x^3+17x^2+21x-20$$
$$4x^7+7x^6-2x^5+14x^4+19x^3+2x^2-15x+25$$
$$2x^7+6x^6-17x^5+10x^4+39x^3-28x^2+12$$
$$8x^7+8x^6-10x^5+32x^4-x^3-14x^2+8x-1$$
$$20x^7-10x^6+22x^5-17x^4+29x^3-5x^2+5x-12$$
$$15x^7+32x^6-15x^5-37x^4+12x^3+4x^2-16x-6$$
$$20x^7+16x^6+27x^5+13x^4-19x^3+3x^2-24x+12$$
$$4x^7-3x^6+8x^5+x^4-17x^3+18x^2-15x+6$$
$$5x^7+16x^6-19x^5-36x^4+4x^3+31x^2+7x-4$$
$$12x^7+35x^6+32x^5+5x^4-12x^3-7x^2-4x-1$$
$$2x^7-6x^6-3x^5+5x^4+6x^3+27x^2+16x+16$$
$$8x^7-6x^6+22x^5+9x^4+4x^3+24x^2+6x-3$$
$$12x^7-24x^6+4x^5+19x^4-7x^3+x^2-13x+10$$
$$15x^7-25x^6+50x^5-69x^4+41x^3-30x^2-10x+25$$
$$12x^7-15x^6+11x^5-5x^4-28x^3+25x^2-7x+5$$
$$20x^7-3x^6+35x^5+28x^4+22x^3+36x^2+25x+6$$
$$12x^7-10x^6-22x^5-4x^4-25x^3+6x^2-18x+5$$
$$20x^7-21x^6+19x^5-8x^4+19x^3-13x^2+4$$
$$8x^7-16x^6-26x^5-22x^4+27x^3+33x^2-6x-10$$

$$15x^7 - 19x^6 + 15x^5 - 6x^4 + 10x^3 + 3x^2 - 15x + 9$$
$$10x^7 - 23x^6 + 41x^5 - 8x^4 - 12x^3 + 27x^2 + 3x - 2$$
$$12x^7 - 20x^6 - 13x^5 - 4x^4 + 4x^3 - 5x + 1$$
$$3x^7 + 3x^6 + 9x^5 + 19x^4 + 8x^3 + 18x^2 + 7x + 5$$
$$2x^7 - 3x^6 - 18x^5 - 33x^4 - 26x^3 + 2x^2 + 15x + 25$$
$$8x^7 + 18x^6 + 17x^5 + 13x^4 + 19x^3 + 11x^2 - 6x + 4$$
$$12x^7 + 5x^6 - 2x^5 + x^4 + 11x^3 + 2x^2 - 6x - 2$$
$$20x^7 + 6x^6 - 27x^5 + 32x^4 + 19x^3 - 7x^2 - 11x + 12$$
$$3x^7 - 11x^6 - 12x^5 + x^4 + 14x^3 + 20x^2 + 13x - 10$$
$$5x^7 - 25x^6 - 21x^5 + 2x^4 - 10x^3 + 60x^2 + 10x - 25$$
$$3x^7 + 4x^6 - 11x^5 - 15x^4 - 35x^3 - 4x^2 - 6x + 10$$
$$8x^7 - 10x^6 - 7x^5 - 4x^4 + 8x^3 - 13x^2 + 6x - 2$$
$$6x^7 - 13x^6 + 23x^5 - 26x^4 + 19x^3 - 24x^2 + 4x + 5$$
$$6x^7 - 11x^6 + 3x^5 + 7x^4 - 21x^3 + 9x^2 - 3x - 4$$
$$9x^7 - 3x^5 + 12x^4 - 32x^3 + 25x^2 - 21x + 4$$
$$3x^7 + x^6 - 8x^5 - 8x^4 - 8x^3 + x^2 + 26x + 8$$
$$3x^7 - 13x^6 - 5x^5 + 30x^4 - 13x^3 - 24x^2 + 16x + 10$$
$$9x^7 + 6x^6 + 7x^5 + 23x^4 + 17x^3 + 10x^2 + 15x + 12$$
$$20x^7 - 24x^6 + 45x^5 - 46x^4 + 45x^3 - 33x^2 + 10x - 1$$
$$15x^7 - 15x^6 + 11x^5 - 8x^4 - 42x^3 - 13x^2 - 23x - 15$$
$$16x^7 - 40x^6 + 33x^5 - 10x^4 + x^3 - 25x^2 - 22x + 5$$
$$8x^7 - 24x^6 + 36x^5 - 26x^4 + 24x^3 - 12x^2 + 4x + 15$$
$$16x^7 - 16x^6 - 28x^5 + 24x^4 + 24x^3 - 11x^2 - 13x + 10$$
$$6x^7 + 7x^6 - 6x^5 - 30x^4 - 21x^3 + 11x^2 + 33x + 20$$
$$5x^7 - 21x^6 - 29x^5 - 14x^4 + 13x^3 + 10x^2 + 2x - 2$$
$$4x^7 - 12x^6 + 21x^5 + 3x^4 - 19x^3 + 4x^2 - 17x + 6$$
$$4x^7 - 2x^6 + 16x^5 - 2x^4 + 9x^3 + 4x^2 - 14x - 6$$
$$12x^7 + 12x^6 + 35x^5 + 7x^4 + 25x^3 - 15x^2 + 11x - 12$$
$$15x^7 + 25x^6 - 2x^5 - 16x^4 - 16x^3 - 2x^2 + x + 3$$
$$15x^7 - 11x^6 + 7x^5 + x^4 - 27x^3 + 6x^2 - 12x + 20$$
$$3x^7 + 3x^6 + 13x^5 + 28x^4 - 4x^3 + 14x^2 - 3x - 9$$
$$3x^7 + 12x^6 + 14x^5 + 8x^4 - x^3 - 40x^2 - 3x + 12$$
$$12x^7 - 11x^6 + 11x^5 - 12x^3 - 9x^2 - 35x - 20$$
$$5x^7 - 3x^6 - 12x^5 + 10x^4 + 4x^3 + 5x^2 + 3x - 9$$
$$12x^7 + 29x^6 + 47x^5 + 12x^4 - 23x^3 - 42x^2 - 2x + 15$$
$$16x^7 - 8x^5 + 5x^3 - 20x^2 + x - 10$$
$$4x^7 - 5x^6 - 15x^5 + 9x^4 + x^3 - 11x^2 + 5x - 2$$
$$25x^7 + 35x^6 + 15x^5 - 12x^4 - 8x^3 - 3x^2 + 6x + 6$$
$$6x^7 - 6x^6 - 17x^5 + 23x^4 + 16x^3 - 29x^2 + 3x + 10$$
$$10x^7 + 17x^6 + 9x^5 - 9x^4 - 2x^3 + 14x^2 - 11x - 10$$
$$15x^7 + 19x^6 + 3x^5 + 9x^4 - 20x^3 - 28x^2 - 17x - 15$$
$$12x^7 + 21x^6 + 13x^5 - 14x^4 - 18x^3 + 6x^2 + 16x - 8$$
$$2x^7 - 2x^5 + 25x^4 - 32x^3 - 21x^2 + 21x + 5$$

$$15x^7 + 8x^6 - 9x^5 + 18x^4 + 31x^3 - 5x^2 + 5x + 25$$
$$20x^7 - 7x^6 - 18x^5 + 12x^4 + 31x^3 - 21x^2 - 9x + 12$$
$$25x^7 - 15x^6 - 15x^5 - 15x^4 - 9x^3 + 17x^2 + 4x + 6$$
$$20x^7 - 29x^6 + 12x^5 - 16x^4 + 19x^3 - 15x^2 + 15x - 9$$
$$12x^7 + 2x^6 + 3x^5 - 23x^4 - 22x^3 - 2x^2 + 11x + 15$$
$$12x^7 + 7x^6 + 32x^5 + 22x^4 + 17x^3 + 14x^2 - 12x - 8$$
$$8x^7 - 6x^6 - 17x^5 + 3x^4 + 9x^3 + 6x^2 + 2x + 1$$
$$3x^7 + 8x^6 - 16x^5 + 2x^4 + 11x^3 - 13x^2 - 2x - 8$$
$$4x^7 + 2x^5 + 16x^4 + 24x^3 + 19x^2 + 19x + 6$$
$$6x^7 + 9x^6 + 5x^5 - 8x^4 + 16x^3 - 3x^2 - 7x + 6$$
$$3x^7 + 3x^6 - 9x^5 - 22x^4 + 7x^3 + 21x^2 + 11x + 2$$
$$8x^7 + 22x^6 + 31x^5 + 6x^4 + 5x^2 + 5x - 25$$
$$15x^7 - 14x^6 - 15x^5 - 23x^4 + 4x^3 - 19x^2 - 8x - 12$$
$$10x^7 - 16x^6 + 25x^5 - 16x^4 + 2x^3 - 11x^2 + 5x - 20$$
$$16x^7 - 28x^6 + 6x^5 - 36x^4 + 35x^3 - 9x^2 + 23x - 12$$
$$4x^7 - 12x^6 - 7x^5 + 36x^4 - 22x^3 - 24x^2 + 29x - 12$$
$$5x^7 + 7x^6 + 26x^4 + 12x^3 - 11x^2 + 15x - 5$$
$$5x^7 + 12x^6 - 24x^5 + 4x^4 + 11x^3 - 22x^2 + 10x - 4$$
$$8x^7 - 14x^6 - 4x^5 - 13x^4 + 5x^3 - 7x^2 + 9x - 20$$
$$4x^7 - 4x^6 - 3x^5 + 36x^4 - 23x^3 + 5x^2 - 9x + 20$$
$$4x^7 + 18x^6 - 19x^5 - 2x^4 - 9x^3 + 19x^2 - 25$$
$$16x^7 - 24x^6 - 27x^5 + 40x^4 - 12x^3 - 15x^2 - x - 5$$
$$20x^7 + 3x^6 - 7x^5 - 31x^4 - 24x^3 - 5x^2 + 5x + 3$$
$$9x^7 + 18x^6 + 20x^5 + 34x^4 + 26x^3 + 36x^2 + 5x + 20$$
$$8x^7 + 6x^6 - 35x^5 - 3x^4 - 6x^3 + 12x^2 + 2x + 8$$
$$2x^7 - 3x^6 - 2x^5 - 26x^4 + x^3 - 16x^2 + 2x - 8$$
$$4x^7 + 17x^6 - 22x^5 + 32x^4 - 6x^3 - 31x^2 + 10x + 4$$
$$8x^7 - 22x^6 - 9x^5 + 30x^4 - 31x^3 - 3x^2 + 24x - 9$$
$$2x^7 + 9x^6 + 9x^5 + 26x^4 + 48x^3 + 34x^2 + 27x + 15$$
$$10x^7 + 2x^6 - 20x^5 + 39x^4 - 2x^3 - 8x^2 - 11x + 4$$
$$12x^7 - 15x^6 + 5x^5 - 19x^4 + 5x^3 - 14x^2 - 6x + 4$$
$$3x^7 + 13x^6 + 2x^5 - 13x^4 + 20x^3 + 2x^2 - 17x + 12$$
$$9x^7 - 12x^6 + 15x^5 - 41x^4 + 17x^3 - 10x^2 + 5x + 5$$
$$4x^7 - 8x^6 + 2x^5 - 20x^4 + 8x^3 - 27x^2 - 7x - 15$$
$$25x^7 - 25x^6 + 10x^5 - 40x^4 + 37x^3 - 27x^2 + 32x - 20$$
$$2x^7 + x^6 + 7x^5 - 6x^4 - 10x^3 - 6x^2 - 9x - 4$$
$$25x^7 + 35x^6 + 10x^5 - 32x^4 - 24x^3 - 18x^2 - 17x - 15$$
$$10x^7 + 10x^6 + 2x^5 + 17x^4 + 15x^3 - 5x^2 - 22x + 8$$
$$4x^7 - 11x^6 + 18x^5 + 7x^4 - 35x^3 - 7x^2 + 9x + 3$$
$$10x^7 - 2x^6 + 7x^5 - 27x^4 - 10x^3 + 10x^2 + 5x + 4$$
$$8x^7 + 8x^6 - 16x^5 + 20x^4 + 22x^3 - 28x^2 + 26x - 15$$
$$5x^7 - 13x^6 + 18x^5 - 7x^4 - 14x^3 + 7x^2 - 5x + 4$$
$$2x^7 + 3x^6 + 2x^5 - 4x^3 - 4x^2 + 16$$

4.6 일계수가 아닌 칠차식 3형

$$6x^7 - 11x^6 - 3x^5 + 32x^4 - 29x^3 + 5x^2 + 15x - 25$$

$$25x^7 + 25x^6 - 19x^5 - 31x^4 + 2x^3 + 27x^2 - 5x - 4$$

$$20x^7 + 35x^6 + 16x^5 + 22x^4 + 30x^3 + 37x^2 + 19x + 5$$
$$10x^7 + 23x^6 + 34x^5 + 27x^4 + 10x^3 + 5x^2 - 15x - 4$$
$$6x^7 - 9x^6 - 37x^5 + 7x^4 + 26x^3 + 25x^2 - 17x - 5$$
$$20x^7 + 25x^6 + 12x^5 + 5x^4 - 25x^3 + 4x^2 - 15x + 6$$
$$3x^7 + 10x^6 - x^5 + 9x^4 - 13x^3 + 2x^2 + 7x + 10$$
$$6x^7 - 5x^6 - 2x^5 + 2x^3 - 20x^2 + 8x - 16$$
$$2x^7 - 2x^6 + 2x^5 - 9x^3 - 14x^2 - 9$$
$$6x^7 - 19x^6 + 19x^5 - 3x^4 + 3x^3 - 7x^2 - 25x + 20$$
$$4x^7 - 24x^6 + 40x^5 - 20x^4 - 5x^3 + 24x^2 - 20x - 5$$
$$5x^7 + 5x^6 + 12x^5 - 8x^4 - 13x^3 - 16x^2 + x - 6$$
$$5x^7 - 23x^6 - 6x^4 + 7x^3 - 12x^2 + 8x + 15$$
$$4x^7 + 11x^6 + 13x^5 + 8x^4 + 5x^3 - 19x^2 - 24x - 12$$
$$3x^7 + 5x^6 - 7x^5 - 2x^4 + 15x^3 - 13x^2 + 7x - 2$$
$$4x^7 - 2x^6 + 5x^5 + 8x^4 + 8x^3 - 35x^2 - 7x + 12$$
$$5x^7 + 3x^6 + 21x^5 - 32x^4 - 2x^3 - 17x^2 + 10x + 10$$
$$4x^7 + 2x^6 + 6x^5 - 7x^4 - 11x^3 + 2x^2 - 11x - 15$$
$$4x^7 - 24x^6 + 31x^5 - 27x^4 + 22x^3 + 15x^2 - 23x + 6$$
$$2x^7 - 2x^6 - x^5 + 6x^4 + 17x^3 + 21x^2 + 13x + 4$$
$$15x^7 - 2x^6 - 2x^5 - 9x^4 + 14x^3 - 11x^2 + 5x - 1$$
$$20x^7 - 33x^5 - 5x^4 + 14x^3 - 14x^2 + 11x + 3$$
$$2x^7 + 2x^6 - 12x^5 - 14x^4 + 8x^3 + 11x^2 + 9x + 9$$
$$2x^7 + 10x^6 - 3x^5 - 2x^4 + 13x^3 - 14x^2 + 23x - 4$$
$$3x^7 + 3x^6 + 4x^5 + 17x^4 - 10x^3 + 38x^2 - 19x + 20$$
$$8x^7 - 16x^6 + 6x^5 + 2x^4 - 27x^3 + 28x^2 - 31x + 20$$
$$4x^7 + 4x^6 + 21x^5 + 12x^4 + 30x^3 + 9x^2 + 11x + 5$$
$$15x^7 + 3x^6 + 14x^5 - x^4 + 14x^3 - 3x^2 - 16x - 16$$
$$20x^7 + 3x^6 - 19x^5 - 3x^4 - 8x^3 + 24x^2 - 2x - 5$$
$$8x^7 - 14x^6 + 32x^5 - 34x^4 + 33x^3 - 34x^2 + 17x - 20$$
$$9x^7 - 10x^3 + 15x^2 - 3x + 5$$
$$6x^7 - 9x^6 - 4x^5 + 2x^4 - 4x^3 + 14x^2 + 3x - 2$$
$$25x^7 - 50x^6 + 5x^5 + 40x^4 - 40x^3 - x^2 + 21x + 4$$
$$3x^7 - 13x^6 - 14x^5 + 26x^4 - 3x^3 - 16x^2 + 19x + 12$$
$$4x^7 - 3x^6 - 14x^5 + 16x^4 + 30x^3 + x^2 - 40x + 16$$
$$12x^7 + 5x^6 - 24x^5 - 60x^4 - 30x^3 - 4x^2 + 5x - 12$$
$$6x^7 + 6x^6 + 2x^5 - 11x^4 + 19x^3 - 22x^2 + 13x - 3$$
$$5x^7 - 8x^6 - x^5 + 16x^4 + 22x^3 + 29x^2 + 2x - 10$$
$$3x^7 - 13x^6 + 6x^5 + 5x^4 + 7x^3 - 5x^2 - 15x + 25$$
$$15x^7 - 7x^6 + 7x^5 + 13x^4 + x^3 - 12x^2 - 7x - 5$$
$$2x^7 - 13x^6 + 18x^5 - 18x^4 - 24x^3 - 8x^2 - 6x - 1$$
$$8x^7 + 22x^6 + 31x^5 + 7x^4 - 33x^3 + 4x^2 + 14x - 4$$
$$5x^7 - 5x^6 - 19x^5 - 8x^4 - 11x^3 - 8x^2 + 6x + 4$$
$$12x^7 + x^6 - 30x^5 - 16x^4 + 28x^3 - 4x^2 + 4x + 15$$
$$16x^7 - 8x^6 + 33x^5 - 7x^4 + 40x^3 - 11x^2 + 16x - 16$$
$$25x^7 + 5x^6 - 12x^5 + 55x^4 - 14x^3 - 14x^2 + 13x - 10$$
$$25x^7 + 30x^6 + 35x^5 + 25x^4 - 12x^3 + 14x^2 - x + 3$$
$$10x^7 - 12x^6 + 14x^5 - 9x^4 - 4x^3 - 41x^2 - 36x - 20$$
$$12x^7 - 23x^6 - 3x^5 + 25x^4 - 26x^3 + 28x^2 - 14x + 2$$

$$2x^7 + 3x^6 + 2x^5 + 6x^4 - 8x^3 - 5x^2 - 8x - 10$$
$$4x^7 - 6x^6 - 12x^5 - 19x^4 + 19x^3 + 10x^2 + 29x + 10$$
$$2x^7 - 3x^6 + 6x^5 + x^4 + 3x^3 + 5x^2 + 8x + 4$$
$$2x^7 + 7x^6 + 6x^5 - 13x^4 - 38x^3 - 50x^2 - 45x - 25$$
$$20x^7 + 11x^6 + 13x^5 - 17x^4 + 23x^3 - 13x^2 - 3x + 2$$
$$25x^7 + 15x^6 - 40x^5 + 5x^4 + 25x^3 + 7x^2 - 10x - 3$$
$$15x^7 + 2x^6 - 2x^5 + 21x^4 - 2x^3 + 12x^2 - x + 15$$
$$2x^7 - 8x^6 + 5x^5 - 12x^4 - 8x^3 + 4x^2 - 5x + 4$$
$$10x^7 + 7x^6 + 18x^5 - 3x^4 + 15x^3 - 5x^2 - x + 4$$
$$4x^7 + 2x^6 + 8x^5 + 10x^4 + 20x^3 + 5x^2 - 3x - 6$$
$$10x^7 - 23x^6 - 6x^5 + 23x^4 - 11x^3 - 42x^2 - x + 20$$
$$12x^7 + 11x^6 + 6x^5 + 18x^4 + 7x^3 + 3x^2 + 9x - 12$$
$$3x^7 + 13x^6 - 20x^5 + 24x^4 - 21x^3 - 2x^2 + 2x - 8$$
$$3x^7 + 19x^6 + 21x^5 + x^4 - 27x^3 - 33x^2 - 16x - 12$$
$$8x^7 + 12x^6 - 10x^5 - 3x^4 + 18x^3 + 14x^2 + 9x - 4$$
$$5x^7 - 7x^6 - 12x^5 - 18x^4 + 3x^3 - 2x + 4$$
$$4x^7 + 4x^6 - x^5 - 24x^4 - 11x^3 + 17x^2 + 29x + 15$$
$$5x^7 - 5x^6 + 12x^5 + 35x^4 - 26x^3 + 27x^2 - 17x + 5$$
$$8x^7 - 28x^6 + 42x^5 - 21x^4 - 17x^3 + 32x^2 - 13x + 4$$
$$12x^7 + 3x^6 - 3x^5 + 6x^4 - 20x^3 - x^2 + 2x - 8$$
$$25x^7 - 25x^6 + 19x^5 - 12x^4 - 22x^3 + 34x^2 + x - 10$$
$$20x^7 - 3x^6 - 18x^5 - 9x^4 + 2x^3 - 6x^2 + 4x + 8$$
$$4x^7 - 14x^6 - 2x^5 + 23x^4 + 9x^3 + 14x^2 - 4x - 10$$
$$12x^7 + 20x^6 + 5x^5 + 11x^4 - 23x^3 - 19x^2 - 15x - 12$$
$$20x^7 - 6x^6 + 7x^4 + 12x^3 + 7x^2 + 8x - 3$$
$$5x^7 + 8x^6 + 14x^5 - 12x^4 - 13x^3 - 14x^2 - 28x - 16$$
$$3x^7 - 11x^6 + 2x^5 + 11x^4 + 11x^3 + 5x^2 + 8x + 3$$
$$16x^7 - 32x^6 + 39x^5 - 10x^4 - 16x^3 + 21x^2 - 12x + 4$$
$$20x^7 + 19x^6 - 22x^5 - 26x^4 + 28x^3 + 5x^2 - 27x + 10$$
$$10x^7 - 10x^6 + 3x^5 + 3x^4 - 14x^3 + 11x^2 + 5x - 5$$
$$4x^7 - 5x^6 + 16x^5 - 22x^4 - x^3 - 5x^2 - 4x + 12$$
$$20x^7 - 18x^5 + 7x^4 + 14x^3 + 6x^2 - 17x + 12$$
$$20x^7 - 27x^6 + 30x^5 - 20x^4 + 22x^3 - 3x^2 + 6x + 8$$
$$5x^7 - 22x^6 + 16x^5 - 17x^4 + 12x^3 + 7x^2 + 5x - 2$$
$$25x^7 + 5x^6 + 14x^5 - 13x^4 + 20x^3 - 16x^2 - 5x - 10$$
$$3x^7 - 6x^6 - 2x^5 + 4x^4 - x^3 + 2x^2 + 7x + 3$$
$$6x^7 - 6x^6 + 20x^5 - 14x^4 + 16x^3 + 7x^2 + 20$$
$$25x^7 + 25x^6 - 19x^5 - 16x^4 - 19x^3 + 7x^2 + 25x - 12$$
$$2x^7 + 10x^6 - 13x^5 - 17x^4 + 9x^3 + 11x^2 + 9x - 12$$
$$3x^7 - 10x^6 + 19x^5 - 10x^4 - 14x^3 + 26x^2 - 16x + 4$$
$$15x^7 - 37x^6 + 39x^5 - 8x^4 - 6x^3 + 4x^2 + 4x - 3$$
$$20x^7 + 7x^6 - 35x^5 - 17x^4 + 14x^3 + 16x^2 - 2x - 8$$
$$2x^7 + 2x^6 - 9x^5 - 3x^4 - 14x^3 - 20x^2 + 14x + 4$$
$$6x^7 - 4x^6 - 20x^5 + 17x^4 + 24x^3 + x^2 - 20x + 6$$
$$20x^7 + 25x^6 - 9x^5 - 36x^4 - 48x^3 - 40x^2 - 15x + 4$$
$$8x^7 + 10x^6 - 13x^5 - 6x^4 + 3x^3 - 22x^2 - x + 12$$
$$10x^7 + 3x^6 - 20x^5 - 20x^4 - 9x^3 + 13x^2 - 16$$

$$6x^7 - 7x^6 + 12x^5 - 22x^4 - 8x^2 - 20x - 25$$
$$12x^7 - 16x^6 + 9x^5 - 15x^4 - 29x^3 - 4x^2 + 13x + 10$$
$$3x^7 + 6x^6 + 10x^5 - 5x^4 - 13x^3 - 14x^2 - 20x - 16$$
$$10x^7 + 8x^6 - 21x^5 - 8x^4 + 11x^3 + 4x^2 - 3x - 15$$
$$4x^7 + 19x^6 + 2x^5 + 9x^4 - 27x^3 - 28x^2 + 5x + 2$$
$$25x^7 - 5x^6 + 5x^5 - 23x^4 + 23x^3 + 23x^2 - 14x - 8$$
$$4x^7 + 10x^6 + 20x^5 + 9x^4 - 11x^3 - 36x^2 - 17x + 10$$
$$25x^7 + 40x^6 + 45x^5 + 44x^4 + 34x^3 + 32x^2 + 18x + 9$$
$$5x^7 - 13x^6 + x^5 + 6x^4 - 31x^3 + 14x^2 - 12x - 5$$
$$16x^7 - 4x^6 - 12x^5 + 25x^4 + 10x^3 - 5x^2 - 25x - 25$$
$$5x^7 + 15x^6 - 30x^5 + 10x^4 + 2x^2 + 8x - 4$$
$$6x^7 - 19x^6 + 33x^5 - 33x^4 + 14x^3 - 11x + 4$$

$$4x^7 - 14x^5 - x^4 + 9x^3 - 2x^2 - 9x + 15$$
$$2x^7 - 10x^6 + 22x^5 - 25x^4 + 12x^3 + 5x^2 - 6x - 3$$
$$6x^7 + 2x^6 - 17x^5 - 8x^4 + 3x^3 - 8x^2 - 5x + 3$$
$$2x^7 + 3x^6 + 4x^5 - 10x^4 + 11x^3 + 11x^2 - 18x + 3$$
$$3x^7 - 9x^6 - 4x^5 - 5x^4 - 12x^3 + 14x^2 + 7x - 2$$
$$15x^7 - 15x^6 + 2x^5 - 9x^4 + 5x^3 - 7x^2 + 7x - 3$$
$$3x^7 + 3x^6 + 12x^5 + 2x^4 + 10x^3 + 7x + 3$$
$$12x^7 - 31x^6 + 31x^5 - 31x^4 + 3x^3 - x^2 - 20x + 5$$
$$8x^7 - 10x^6 - 2x^5 - 15x^4 - 4x^3 + 7x^2 + 13x + 15$$
$$15x^7 + 31x^6 + 5x^5 - 26x^4 - 37x^3 - 20x^2 + 19x + 15$$
$$20x^7 - 9x^6 - 30x^5 - 28x^4 + 21x^3 + 11x^2 + 7x + 2$$
$$2x^7 - 9x^6 - 7x^5 + 12x^4 + 23x^3 + 41x^2 - 20$$

5. 특집: 백차식 3제

$$x^{100}+3x^{99}+x^{97}+3x^{96}-12x^{95}-15x^{94}-40x^{93}+2x^{92}+2x^{91}+28x^{90}+42x^{89}-21x^{88}-26x^{87}$$
$$-92x^{86}+54x^{85}+75x^{84}+87x^{83}+17x^{82}-123x^{81}+25x^{80}-6x^{79}+76x^{78}-4x^{77}+19x^{76}-147x^{74}$$
$$-17x^{73}+27x^{72}+117x^{71}+35x^{70}-26x^{69}-34x^{68}-59x^{67}+128x^{66}-8x^{65}+74x^{64}-19x^{63}+42x^{62}$$
$$-5x^{61}-12x^{60}-8x^{59}-111x^{58}+55x^{57}+11x^{56}+30x^{55}-7x^{54}-14x^{53}+20x^{52}+6x^{51}+52x^{50}$$
$$+76x^{49}+58x^{48}-80x^{47}+67x^{46}-36x^{45}+14x^{44}+104x^{43}-106x^{42}+11x^{41}-129x^{40}+53x^{39}$$
$$-12x^{38}-43x^{37}+35x^{36}-3x^{35}-15x^{34}-6x^{33}+62x^{32}+45x^{31}+53x^{30}-39x^{29}-34x^{28}+23x^{27}$$
$$-54x^{26}+4x^{25}-15x^{24}+48x^{23}-98x^{22}+41x^{21}+19x^{20}-77x^{19}-9x^{18}+28x^{17}+28x^{16}+12x^{15}$$
$$-9x^{14}+19x^{13}+36x^{12}+7x^{11}+x^{10}+34x^{9}-30x^{8}-24x^{7}-31x^{6}+12x^{5}+4x^{4}+2x^{3}-3x^{2}-x+2$$

$$x^{100}+4x^{99}-2x^{98}-7x^{97}-21x^{96}-8x^{95}+22x^{93}+9x^{92}-40x^{91}-44x^{90}+10x^{89}+4x^{88}-45x^{87}$$
$$-49x^{86}-2x^{85}+52x^{84}-73x^{83}-4x^{82}-20x^{81}-41x^{80}-59x^{79}-25x^{78}-42x^{77}-10x^{76}-44x^{75}$$
$$+64x^{74}-19x^{73}-65x^{72}-39x^{71}+83x^{70}+47x^{69}+16x^{68}-46x^{67}+58x^{66}-56x^{65}-42x^{64}-39x^{63}$$
$$-58x^{62}-88x^{61}-15x^{60}-6x^{59}-96x^{58}+11x^{57}+32x^{56}-18x^{55}-2x^{54}-21x^{53}-34x^{52}+19x^{51}$$
$$-33x^{50}-19x^{49}-86x^{48}-83x^{47}-42x^{46}-107x^{45}+92x^{44}-32x^{43}-102x^{42}+94x^{41}-60x^{40}+68x^{39}$$
$$-77x^{38}+12x^{37}-107x^{36}+57x^{35}-45x^{34}-27x^{33}+17x^{32}+149x^{31}-127x^{30}+32x^{29}-60x^{28}+19x^{27}$$
$$+7x^{26}+30x^{25}+2x^{24}-91x^{23}+8x^{22}-121x^{21}+29x^{20}+52x^{19}-36x^{18}+8x^{17}+18x^{16}-38x^{15}-x^{14}$$
$$+7x^{13}+46x^{12}-13x^{11}-41x^{10}-2x^{9}-64x^{8}+30x^{7}-68x^{6}+26x^{5}-18x^{4}-7x^{3}+5x^{2}+8x+20$$

$$x^{100}+5x^{99}+2x^{98}-11x^{97}+3x^{96}-12x^{95}-19x^{94}+42x^{93}-20x^{92}-3x^{91}+10x^{90}+17x^{89}-51x^{88}$$
$$+4x^{87}+74x^{86}-30x^{85}+43x^{84}-16x^{83}+26x^{82}-26x^{81}-59x^{80}-5x^{79}+21x^{78}+34x^{77}-2x^{76}$$
$$-7x^{75}+44x^{74}-100x^{73}+4x^{72}+15x^{71}-57x^{70}+82x^{69}+96x^{68}-22x^{67}-90x^{66}+25x^{65}-49x^{64}$$
$$+8x^{63}+56x^{62}+84x^{61}+115x^{60}-28x^{59}+6x^{58}-47x^{57}-45x^{56}+59x^{55}-146x^{54}+76x^{53}+34x^{52}$$
$$-32x^{51}+39x^{50}-74x^{49}-3x^{48}+9x^{47}+31x^{46}-34x^{45}+56x^{44}+33x^{43}-3x^{42}+60x^{41}-119x^{40}$$
$$-83x^{39}+61x^{38}+70x^{37}+80x^{36}+11x^{35}+92x^{34}-37x^{33}-63x^{32}+27x^{31}-125x^{30}+33x^{29}+63x^{28}$$
$$-22x^{27}-62x^{26}-5x^{25}-9x^{24}-x^{23}+45x^{22}-15x^{21}+18x^{20}+8x^{19}-29x^{18}-58x^{17}-22x^{16}+57x^{15}$$
$$-26x^{14}+2x^{13}+9x^{12}-20x^{10}-7x^{9}-34x^{8}-4x^{7}+7x^{6}-23x^{5}+7x^{4}+12x^{3}+15x^{2}+13x-5$$

II

정답

6. 사차식의 인수분해

6.1 일계수 사차식

$(x^2+2x+5)(x^2+4x-4)$
$(x^2-x+1)(x^2+4x-2)$
$(x^2-5x-2)(x^2-4x+1)$
$(x^2-4x-1)(x^2+x-3)$
$(x^2+x+4)(x^2+4x+2)$
$(x^2-x-5)(x^2-2x-1)$
$(x^2+2x-5)(x^2-x+3)$
$(x^2+x-1)(x^2+5x+5)$
$(x^2+5x-5)(x^2+2x+4)$
$(x^2-4x+2)(x^2-5)$
$(x^2-4x-2)(x^2-5x-3)$
$(x^2-3x-2)(x^2-3x+5)$
$(x^2+5x-4)(x^2-x+1)$
$(x^2-3x-2)(x^2+3x+3)$
$(x^2-5)(x^2-5x+3)$
$(x^2+5x-3)(x^2-5x+5)$
$(x^2+x-1)(x^2-x+4)$
$(x^2+x+3)(x^2+5x-5)$
$(x^2+4x+5)(x^2+3x+3)$
$(x^2-5)(x^2+5)$
$(x^2-3)(x^2-x+4)$
$(x^2+3x-1)(x^2-2x+3)$
$(x^2-5x-3)(x^2-3x+4)$
$(x^2-3x+5)(x^2+x-4)$
$(x^2+5x-4)(x^2+4x-4)$
$(x^2+1)(x^2-2x-2)$
$(x^2+x-3)(x^2-5x+5)$
$(x^2+3x+5)(x^2-x+5)$
$(x^2+x-3)(x^2-2)$
$(x^2-x+3)(x^2-3x+1)$
$(x^2-4x+1)(x^2+5x+1)$
$(x^2-3x-2)(x^2-2x+5)$
$(x^2+5x-4)(x^2+2x-2)$
$(x^2-5x+5)(x^2-4x-4)$
$(x^2-3x-3)(x^2+5x-3)$
$(x^2-5x-3)(x^2-x-3)$
$(x^2+x+3)(x^2-x+2)$
$(x^2-5x+1)(x^2+2x+3)$
$(x^2-x-1)(x^2-4x+1)$
$(x^2+3x-3)(x^2+5x-1)$
$(x^2-4x+5)(x^2-2x-5)$
$(x^2+4)(x^2-5x+3)$
$(x^2+5x+2)(x^2-x+2)$
$(x^2+4x+2)(x^2+x-1)$
$(x^2+3x+4)(x^2-3x-1)$
$(x^2-5x-1)(x^2+3x-2)$
$(x^2+4x-1)(x^2+x+1)$
$(x^2+3x+5)(x^2-3x+4)$
$(x^2-5x-4)(x^2+4x+2)$
$(x^2+4x-2)(x^2-5x-4)$
$(x^2+4x-3)(x^2-3x-5)$
$(x^2-2x+4)(x^2-5x-2)$
$(x^2+4x-2)(x^2-x-1)$
$(x^2-4x-2)(x^2-x+4)$
$(x^2-2x-2)(x^2+5x+5)$
$(x^2+3x-5)(x^2+3x-3)$
$(x^2-2x-2)(x^2-x+1)$
$(x^2-x+5)(x^2+2x-1)$
$(x^2+5x+5)(x^2-3x-3)$
$(x^2+5x-2)(x^2-2x-4)$
$(x^2-4x+5)(x^2+3x+4)$
$(x^2-4x-1)(x^2-2x-5)$
$(x^2-x-4)(x^2+3x-2)$
$(x^2-x+3)(x^2-5x-5)$
$(x^2+4x-3)(x^2-3x-2)$
$(x^2-4x-2)(x^2-5x+3)$
$(x^2+x+3)(x^2-4x-2)$
$(x^2+3x+3)(x^2-x+4)$
$(x^2+5x+3)(x^2-3x-3)$
$(x^2-2)(x^2+3x+5)$
$(x^2-2x-2)(x^2+x+4)$
$(x^2+3)(x^2+5x-5)$
$(x^2+x+1)(x^2+2x-2)$
$(x^2+5x-3)(x^2+4x-2)$
$(x^2+x-4)(x^2+x-4)$
$(x^2-5x+1)(x^2+4x-1)$
$(x^2-x+4)(x^2+x+3)$
$(x^2+4)(x^2-5x+2)$
$(x^2-x+3)(x^2+4x-3)$
$(x^2-3x+3)(x^2+2x+5)$
$(x^2-2x-1)(x^2-x+1)$
$(x^2+x-3)(x^2+4)$
$(x^2+3x-1)(x^2+4x+5)$
$(x^2+2)(x^2-5x-1)$
$(x^2+5x-5)(x^2+2x+3)$
$(x^2+2x+2)(x^2-5x+3)$
$(x^2+5x-1)(x^2+4x-3)$
$(x^2+x-1)(x^2-5x-1)$
$(x^2+3x+1)(x^2+5)$
$(x^2+5x-2)(x^2-5x+5)$
$(x^2-5x+5)(x^2+x+3)$
$(x^2+2x+5)(x^2-x+2)$
$(x^2+x-4)(x^2-2x-4)$
$(x^2-5x-4)(x^2+2x-2)$
$(x^2-5x-4)(x^2-4x-2)$
$(x^2+2x-5)(x^2-5x+2)$
$(x^2+3x+3)(x^2-5)$
$(x^2+2x+4)(x^2+x-3)$
$(x^2-5x+3)(x^2-3x-1)$
$(x^2+5x+2)(x^2+5)$
$(x^2+3x+1)(x^2+5x-1)$
$(x^2-3x-5)(x^2-2x-2)$

$(x^2-5x-5)(x^2-4x+2)$
$(x^2+3x-3)(x^2-4x+1)$
$(x^2-3x-2)(x^2+2x+2)$
$(x^2+5x+1)(x^2+2x-2)$
$(x^2+2)(x^2-x-1)$
$(x^2-x-1)(x^2+3x-2)$
$(x^2-2x-4)(x^2+x+4)$
$(x^2+3x-3)(x^2-3x+3)$
$(x^2+2x-2)(x^2-2x-4)$
$(x^2-2)(x^2-4x+1)$
$(x^2-3)(x^2+5x-4)$
$(x^2-3x+5)(x^2-3x+3)$
$(x^2+x+5)(x^2+x+4)$
$(x^2+x+2)(x^2-5x-1)$
$(x^2-4x-1)(x^2-5x-5)$
$(x^2-2x-1)(x^2-3x+5)$
$(x^2-x-3)(x^2-3)$
$(x^2+2x-1)(x^2-5x+1)$
$(x^2-5x-4)(x^2-x-5)$
$(x^2+2x-4)(x^2+4x-1)$
$(x^2+5)(x^2-2x+5)$
$(x^2+x+3)(x^2-x+5)$
$(x^2+2x+5)(x^2-x-1)$
$(x^2-x+5)(x^2+4x-2)$
$(x^2+5x+5)(x^2+3x-1)$
$(x^2+2x+2)(x^2+x+1)$
$(x^2-2x-2)(x^2+2x+2)$
$(x^2+4x-4)(x^2+2x-4)$
$(x^2+2x-1)(x^2+3)$
$(x^2+x-3)(x^2+x+3)$
$(x^2-2x+4)(x^2-5x-4)$
$(x^2+5x-4)(x^2+x-4)$
$(x^2+1)(x^2-x-4)$
$(x^2+5x-1)(x^2+x+3)$
$(x^2+5x-5)(x^2-x+1)$
$(x^2+5)(x^2-2x-5)$
$(x^2+5x-3)(x^2-4x-3)$
$(x^2-5x-2)(x^2+4x+1)$
$(x^2+4x+2)(x^2-4x-1)$
$(x^2+5x-2)(x^2-x+2)$
$(x^2-3x+3)(x^2+5x+2)$
$(x^2-x+2)(x^2-3x-2)$
$(x^2+3x-5)(x^2+4x+1)$
$(x^2+5x-1)(x^2-3x+3)$
$(x^2-5)(x^2+4x-1)$
$(x^2-3x-5)(x^2-x-1)$
$(x^2+5x-1)(x^2-5x-1)$
$(x^2+5x-2)(x^2+4x-2)$
$(x^2+5x-3)(x^2+x+4)$
$(x^2-x+1)(x^2-5x-3)$
$(x^2-2x+2)(x^2-3x-3)$
$(x^2-4x+1)(x^2+x+4)$
$(x^2-4x+1)(x^2+x-3)$
$(x^2-3x+5)(x^2-x+5)$
$(x^2-x+5)(x^2-x-4)$
$(x^2-4x+5)(x^2+2x-4)$
$(x^2+4x-4)(x^2-x+4)$
$(x^2+2)(x^2-5x+3)$
$(x^2-3x-2)(x^2-3)$
$(x^2-2x-2)(x^2-2x+4)$
$(x^2-x+4)(x^2+3x-1)$
$(x^2-4x-2)(x^2-4x-3)$
$(x^2+3x+5)(x^2+5)$
$(x^2+5x-2)(x^2-4x-1)$
$(x^2+5x+3)(x^2+5x-3)$
$(x^2+4x-4)(x^2-3x+4)$
$(x^2+4x-1)(x^2-5x-2)$
$(x^2-5x-4)(x^2+5x-5)$
$(x^2-5x-4)(x^2+2)$
$(x^2-4x-1)(x^2+3x-2)$
$(x^2-2x+3)(x^2+4x-2)$
$(x^2+2x-2)(x^2-4x-4)$
$(x^2-5x-2)(x^2-5x-2)$
$(x^2-5x-2)(x^2-2x-1)$
$(x^2+4x-3)(x^2+4x+2)$
$(x^2-x+3)(x^2+4)$
$(x^2+x-5)(x^2+2x+4)$
$(x^2+2x+4)(x^2-3x-1)$

6.2 일계수가 아닌 사차식

$(5x^2-4x+2)(2x^2-x+2)$
$(4x^2+4x+5)(5x^2+4x-3)$
$(x^2-2)(3x^2+x-1)$
$(2x^2+4x-3)(4x^2+x-4)$
$(5x^2+2x+2)(2x^2+2x+1)$
$(3x^2+3x-5)(3x^2-2x-4)$
$(x^2+3x+1)(5x^2+4x+2)$
$(5x^2+3x+5)(2x^2-2x+3)$
$(3x^2+4)(2x^2+x-2)$
$(5x^2+4x-4)(3x^2+5x-3)$
$(5x^2+5x+2)(4x^2-3)$
$(2x^2+x-5)(4x^2-x+4)$
$(5x^2+5x+1)(2x^2-2x+1)$
$(3x^2+x+4)(3x^2-x+1)$
$(3x^2+3x-4)(3x^2-5x-4)$
$(2x^2+4x-3)(5x^2+5x-3)$
$(4x^2-x-2)(4x^2+3x+5)$
$(4x^2-3)(3x^2-3x-1)$
$(2x^2-5x-2)(2x^2+3x+3)$
$(2x^2+3x+3)(4x^2+3x+4)$
$(2x^2+2x-1)(3x^2+2x-4)$
$(2x^2-x-4)(4x^2+x-1)$
$(x^2+3)(2x^2+2x+3)$
$(3x^2-x+4)(5x^2+5x+3)$
$(5x^2-3x-3)(4x^2-4x-1)$
$(5x^2-2x-4)(2x^2+5)$
$(5x^2+2x-4)(2x^2-1)$
$(3x^2-2x-3)(x^2+3)$
$(5x^2-5x+4)(3x^2+5x+4)$
$(2x^2-3)(x^2-2x-4)$
$(x^2-3x-1)(5x^2+3x+1)$
$(5x^2+2x+5)(x^2-x-5)$
$(5x^2-x+1)(x^2+4x-4)$
$(5x^2+3x+3)(4x^2+3x+5)$
$(2x^2+2x-1)(x^2+3x+5)$
$(5x^2-x+4)(4x^2-3x+2)$
$(2x^2-x+3)(2x^2+x+5)$
$(x^2+3x-3)(5x^2+x+1)$
$(5x^2-5x+1)(2x^2+x-2)$
$(5x^2+x-3)(2x^2+3x-4)$
$(2x^2-x+4)(2x^2-5x-2)$
$(3x^2-3x+5)(3x^2-2x+5)$
$(5x^2+3x+4)(5x^2-3x+5)$
$(2x^2+5x+1)(5x^2+x+2)$
$(4x^2-3)(4x^2+2x+1)$
$(3x^2-4x-5)(4x^2-5x+3)$
$(2x^2+x+4)(2x^2+5x+5)$
$(3x^2-5x+1)(x^2-3x+5)$
$(x^2-2x+3)(3x^2+2x+1)$
$(4x^2+5)(x^2-2x-1)$
$(3x^2-3x+1)(4x^2-3)$
$(3x^2-5x+5)(2x^2-5)$
$(5x^2-x+5)(5x^2-5x-3)$
$(4x^2-5x-2)(x^2+4x+5)$

$(5x^2+3x+5)(3x^2-2)$
$(5x^2+2x+4)(3x^2-4x+2)$
$(3x^2+2x+5)(4x^2+5x-2)$
$(x^2+3x+5)(3x^2-x-5)$
$(4x^2+2x+3)(5x^2-x+1)$
$(5x^2-x+3)(4x^2-x+1)$
$(3x^2-x-3)(5x^2+x+5)$
$(3x^2+5)(3x^2-4x+2)$
$(3x^2-x+2)(3x^2-1)$
$(x^2-x-1)(5x^2-4x-3)$
$(4x^2-x+2)(4x^2-3x+1)$
$(x^2-3x-1)(5x^2-4x+3)$
$(2x^2+x+4)(3x^2-5)$
$(x^2+3x+3)(2x^2+x-4)$
$(5x^2+4x+4)(3x^2+4x+4)$
$(x^2+4x+1)(4x^2+x-2)$
$(3x^2-2x-4)(5x^2-x+4)$
$(x^2-5x+2)(3x^2+5x+3)$
$(5x^2-x-1)(x^2+5)$
$(3x^2-4x+5)(3x^2-4x-1)$
$(4x^2+3x+5)(2x^2+2x-3)$
$(3x^2+3x+4)(4x^2+4x+5)$
$(5x^2+3x-5)(2x^2-4x-3)$
$(3x^2+3x-4)(4x^2+2x-1)$
$(5x^2-4x+1)(4x^2-2x-5)$
$(4x^2-3)(4x^2+5x-5)$
$(5x^2+5x-4)(5x^2-1)$
$(4x^2+3x+3)(3x^2-2x+1)$
$(5x^2-x+4)(x^2-2x+5)$
$(5x^2+4x-3)(x^2-3x+5)$
$(4x^2-2x-1)(3x^2-x+5)$
$(5x^2-x+3)(x^2-3)$
$(2x^2+4x+1)(2x^2-2x-5)$
$(3x^2-3x-4)(2x^2-5x-1)$
$(2x^2-3x-3)(5x^2-x+4)$
$(3x^2-5x-3)(x^2+5x+2)$
$(2x^2-3)(2x^2-4x-3)$
$(x^2-3)(3x^2-5)$
$(4x^2-2x+5)(5x^2+5x-1)$
$(x^2-x+4)(2x^2-5x-1)$
$(5x^2+2x-5)(2x^2+5)$
$(4x^2+5x-4)(5x^2+4x-2)$
$(4x^2-x+1)(5x^2-5x-4)$
$(5x^2+2x+5)(5x^2+2x+1)$
$(5x^2-5x+2)(4x^2+5x-5)$
$(4x^2+4x+5)(x^2+4x-1)$
$(3x^2+3x-5)(x^2-4x+1)$
$(3x^2+2x+5)(5x^2-5x-3)$
$(4x^2-3x-2)(4x^2-5x-4)$
$(5x^2-3x-5)(4x^2+2x+5)$
$(x^2+x+2)(4x^2-x+5)$
$(5x^2+2x-4)(x^2+2)$
$(5x^2-2x+2)(3x^2+2x-2)$
$(4x^2-x+1)(5x^2-2)$
$(3x^2-x-3)(3x^2+5x+5)$
$(x^2+3x+4)(2x^2+3x+5)$
$(4x^2+4x+3)(4x^2-5x-4)$
$(5x^2-x+4)(x^2+2x+2)$
$(4x^2+5x-4)(5x^2+5x+2)$
$(5x^2+x-3)(2x^2+4x+3)$
$(4x^2+2x-1)(4x^2+4x-5)$
$(3x^2-2x+2)(5x^2-x-1)$
$(3x^2-1)(3x^2+2x+4)$
$(4x^2+x+1)(4x^2+5x+4)$
$(x^2-x+2)(2x^2-2x+3)$
$(x^2+x+2)(5x^2-2x+2)$
$(3x^2-4x-2)(5x^2-2x+2)$
$(3x^2-5x-3)(3x^2+5x+1)$
$(3x^2+5x+3)(3x^2+x+3)$
$(4x^2+x+5)(x^2+4x-2)$
$(5x^2-x+5)(5x^2+5x-3)$
$(3x^2-5x-4)(4x^2+2x+1)$
$(3x^2+2x-3)(5x^2-3x+1)$
$(4x^2-2x-3)(5x^2-5x+1)$
$(x^2-5x+2)(4x^2+3x-5)$
$(4x^2-4x-5)(3x^2-5x-4)$
$(x^2+2x+2)(3x^2+3x-5)$
$(x^2-x+2)(5x^2-4x+4)$
$(4x^2-x-1)(x^2+x-5)$
$(5x^2+2x-1)(3x^2+3x-5)$
$(x^2-5x-2)(3x^2+2x+4)$
$(4x^2+3x-3)(4x^2+x-4)$
$(4x^2+2x-3)(4x^2-5x-2)$
$(x^2-x+3)(5x^2+x-1)$
$(5x^2-5x+3)(4x^2-3x+4)$
$(2x^2-2x+1)(2x^2-x+4)$
$(5x^2+4)(2x^2+4x+1)$
$(5x^2+5x-2)(4x^2-5x-2)$
$(x^2-2x+3)(5x^2-5x+4)$
$(2x^2-5x-2)(4x^2-4x-5)$
$(5x^2-3x+4)(3x^2+5x-1)$
$(2x^2-5x+5)(5x^2-x-1)$
$(x^2+5x-2)(4x^2+3x-3)$
$(5x^2+x-1)(3x^2-2x+1)$
$(4x^2+2x+5)(x^2-x+2)$
$(3x^2+2)(4x^2-2x+3)$
$(5x^2-5x+1)(x^2+4x-4)$
$(2x^2+x+3)(5x^2+3x+3)$
$(x^2+4x-1)(2x^2+5x-5)$
$(5x^2-3x+5)(5x^2-2x-2)$
$(3x^2-5x+3)(3x^2+x+1)$
$(x^2+2x-5)(3x^2+3x-5)$
$(x^2+3x+3)(3x^2-3x+1)$
$(x^2+4x-2)(3x^2-3x+1)$
$(2x^2-x-4)(3x^2-4x+5)$
$(3x^2-5x+3)(x^2+2x-2)$
$(2x^2+4x+3)(x^2-3x-2)$
$(x^2+1)(4x^2-2x+1)$
$(5x^2+x-3)(4x^2-3x+2)$
$(3x^2+5x+4)(4x^2-2x+3)$
$(x^2-2x+2)(5x^2-5x-1)$
$(4x^2-5x-3)(x^2+5x+2)$
$(3x^2+x+1)(5x^2-3x+2)$
$(5x^2-4x+3)(x^2-x+1)$
$(2x^2+2x-1)(x^2+5x-5)$
$(2x^2+2x+3)(2x^2-3x+3)$
$(2x^2+2x+5)(2x^2+1)$
$(5x^2-x+4)(2x^2+3x+4)$
$(3x^2+x-3)(2x^2-2x-5)$
$(5x^2+2x+4)(2x^2+3x+3)$
$(2x^2-5x-5)(5x^2+4x+5)$
$(5x^2+4x-3)(3x^2+5x+3)$
$(2x^2-x-2)(3x^2-5x-1)$
$(3x^2+x+2)(4x^2+5x-4)$
$(3x^2-1)(5x^2-x+5)$
$(3x^2-3x+2)(5x^2+3x-5)$

7. 오차식의 인수분해

7.1 일계수 오차식

$(x^2+5x-2)(x^3+2x^2+5x-3)$
$(x^2+4x-3)(x^3+x^2+4x-3)$
$(x^2-x+5)(x^3-x^2+2x-5)$
$(x^2+2x-4)(x^3+5x^2+3x-5)$
$(x^2+3x+4)(x^3-5x^2-2x-4)$
$(x^2-x-5)(x^3-4x^2+3x+4)$
$(x^2-x+5)(x^3-3x^2+3x+4)$
$(x^2+x-1)(x^3+x^2-x-5)$
$(x^2-3x+1)(x^3+5x^2-3)$
$(x^2+x+2)(x^3+3x^2-4x-4)$
$(x^2+2x-4)(x^3-2x^2-3x+5)$
$(x^2+3x-3)(x^3-x^2-2x+4)$
$(x^2-2x-2)(x^3+4x^2-x-2)$
$(x^2+5x-5)(x^3-4x^2+1)$
$(x^2-5x-2)(x^3+2x^2+x-5)$
$(x^2-5x-4)(x^3-4x^2-2x+2)$
$(x^2+5)(x^3-5x^2+x-3)$
$(x^2-x-3)(x^3+2x^2+2x-1)$
$(x^2-2x-1)(x^3+3x^2+5x-4)$
$(x^2-5)(x^3-3x^2-3x-2)$
$(x^2+3x-5)(x^3+3x^2+5x-4)$
$(x^2-2x-5)(x^3+x^2+3x+1)$
$(x^2+5x+5)(x^3+2x^2+5x+2)$
$(x^2+2x-2)(x^3+x-3)$
$(x^2-x+1)(x^3+5x^2-x+3)$
$(x^2+x-1)(x^3+2x^2-3x-2)$
$(x^2-4x+1)(x^3+2x^2-x+2)$
$(x^2-3x-5)(x^3-4x^2-2)$
$(x^2-3x+4)(x^3-4x^2-3x+4)$
$(x^2-x+2)(x^3-x^2-5)$
$(x^2+4x-4)(x^3+4x^2-x+2)$
$(x^2-2)(x^3-4x^2+2x-1)$
$(x^2+4x-4)(x^3+3x-5)$
$(x^2+2x-2)(x^3-x^2-2x+5)$
$(x^2-3x+3)(x^3-3x^2+3)$
$(x^2-x-3)(x^3-3x^2+x-2)$
$(x^2-5x+1)(x^3+4x^2-x+4)$
$(x^2-5x+2)(x^3-2x^2-5x+4)$
$(x^2+x+5)(x^3-2x^2+2x-3)$
$(x^2+4x-1)(x^3-4x^2+3x-3)$
$(x^2+2x-4)(x^3+3x^2-5x+2)$
$(x^2+4x+1)(x^3+2x^2-2x+5)$
$(x^2+2x+5)(x^3+4x^2-4x+2)$
$(x^2-2x+3)(x^3-2x+3)$
$(x^2+3x-3)(x^3+2x^2+5x+5)$
$(x^2+x-4)(x^3+x^2-3x+4)$
$(x^2-5x+3)(x^3+4x^2+4x+2)$
$(x^2+3x+5)(x^3+2x^2+x+1)$
$(x^2-x-5)(x^3-2x^2-x-5)$
$(x^2+3x-3)(x^3-x^2-x+4)$
$(x^2+3x-3)(x^3-4x^2+3x+5)$
$(x^2+3)(x^3-x^2+x-2)$
$(x^2+5x-2)(x^3+x^2-4x+1)$
$(x^2+3x+1)(x^3+3x^2-4x-5)$
$(x^2+5x-2)(x^3-2x^2-2x+5)$
$(x^2-x-1)(x^3-2x^2-3x+3)$
$(x^2+x+1)(x^3-5x^2-x-2)$
$(x^2-3x-5)(x^3+5x^2-5x-5)$
$(x^2+3x+5)(x^3-3x^2+x-4)$
$(x^2-5x-5)(x^3+x+3)$
$(x^2+5x+2)(x^3-4x^2+5x+5)$
$(x^2-5x-1)(x^3-x^2+5x+5)$
$(x^2+5x-5)(x^3+2x^2-4x-4)$
$(x^2-5x-1)(x^3+2x^2+x-1)$
$(x^2-2x-5)(x^3+x^2-4x+4)$
$(x^2-3x-3)(x^3-4x^2-4)$
$(x^2+5x-1)(x^3-2x^2-3x-3)$
$(x^2+4x-1)(x^3+5x^2-5x-3)$
$(x^2-2x+5)(x^3+x+3)$
$(x^2-x+5)(x^3-5x^2+x-2)$
$(x^2-2x+4)(x^3+x-4)$
$(x^2+2x+5)(x^3+5x^2-5)$
$(x^2-4x-1)(x^3-4x-5)$
$(x^2+5x-1)(x^3-4x-1)$
$(x^2+x-3)(x^3-3x^2+3x+1)$
$(x^2-2x-2)(x^3+5x^2+4x-5)$
$(x^2-5x-2)(x^3+3x^2-1)$
$(x^2-5x+3)(x^3+4x^2+5x-2)$
$(x^2-3x+1)(x^3+4x^2+1)$
$(x^2+5)(x^3+3x^2-3x+1)$
$(x^2+2x-1)(x^3-x^2-x+2)$
$(x^2-4x-3)(x^3+2x^2-4)$
$(x^2+4x-2)(x^3-3x^2-2x-4)$
$(x^2+2x+5)(x^3+5x-2)$
$(x^2-3x+5)(x^3-x^2+2x+2)$
$(x^2-x+4)(x^3-2x^2+4x-5)$
$(x^2-3x-3)(x^3-3x^2-5x+3)$
$(x^2-5x+1)(x^3-4x^2+4x-5)$
$(x^2+4)(x^3+x^2-3x-1)$
$(x^2-2)(x^3+4x^2+4)$
$(x^2+2x+3)(x^3+2x^2-x+4)$
$(x^2+3x+3)(x^3+2x^2-4)$
$(x^2-4x-1)(x^3-5x^2-1)$
$(x^2-2x-4)(x^3-5x^2-5x-2)$
$(x^2+3)(x^3+4x+3)$
$(x^2+5x+5)(x^3+3x^2-3)$
$(x^2-5x-4)(x^3-5x^2+x-4)$
$(x^2+5x+5)(x^3+x^2+5x+1)$
$(x^2+2x-2)(x^3+2x^2+5x-5)$
$(x^2-5x-2)(x^3+x^2-4x-1)$
$(x^2+x+1)(x^3-4x^2+4)$
$(x^2-3x+3)(x^3-2x^2+x+5)$

$(x^2+2x+2)(x^3+5x^2-3x+1)$
$(x^2-4x+1)(x^3-4)$
$(x^2+x-5)(x^3-x^2+x+2)$
$(x^2+4x+2)(x^3+3x^2+5x+2)$
$(x^2-x-1)(x^3+4x^2+x+1)$
$(x^2-x+1)(x^3+x^2-4x+5)$
$(x^2+5x-4)(x^3-x+5)$
$(x^2+4x-1)(x^3+2x^2+3x+1)$
$(x^2+2x+3)(x^3-2x^2+x-5)$
$(x^2-4x-2)(x^3-4x^2+5x-5)$
$(x^2+2x+3)(x^3-x^2-5x+1)$
$(x^2+5)(x^3-4x^2-2x-5)$
$(x^2-4x+2)(x^3-3x^2-3x-5)$
$(x^2-4x-4)(x^3-5x^2+5x+5)$
$(x^2+x+4)(x^3-4x+2)$
$(x^2+3x-3)(x^3-2x-5)$
$(x^2-4x+5)(x^3+2x^2+5)$
$(x^2+5x+1)(x^3-5x^2-x-4)$
$(x^2+x-4)(x^3-2x^2-4x-4)$
$(x^2-2)(x^3-3x^2-3x-1)$
$(x^2-2x+2)(x^3+4x^2+1)$
$(x^2+3x-1)(x^3+3x^2-5x+4)$
$(x^2+2x+2)(x^3+5x^2+4x+5)$
$(x^2+3)(x^3+2x^2+2x+3)$
$(x^2-5x+1)(x^3+x^2+4x+5)$
$(x^2+3x-5)(x^3-x^2-4x-5)$
$(x^2+x-3)(x^3+3x^2-5x+3)$
$(x^2-x+2)(x^3+5x^2+2x+1)$
$(x^2-x+1)(x^3-4x^2+2x+5)$
$(x^2+2)(x^3+x^2+x-5)$
$(x^2-5x+1)(x^3+x^2-3x-5)$
$(x^2+5x-2)(x^3+3x^2-4x-3)$
$(x^2-2x-4)(x^3+5x+2)$
$(x^2-3x-3)(x^3-4x^2+x-3)$
$(x^2+3x+5)(x^3-4x^2-4)$
$(x^2+5x-2)(x^3-2x^2+4x-2)$
$(x^2-5)(x^3-4x^2-4x-4)$
$(x^2-x+5)(x^3+4x+4)$
$(x^2+3x-3)(x^3+x^2-5x+4)$
$(x^2-2x-4)(x^3+5x^2+4x+1)$
$(x^2-3x+1)(x^3+5x^2+x-5)$
$(x^2+x+4)(x^3+x^2+4x-1)$
$(x^2+3x+1)(x^3-2x^2+4)$
$(x^2-x+1)(x^3+5x^2+2x-3)$
$(x^2+2x+5)(x^3-x^2+5x+5)$
$(x^2-4x-4)(x^3-5x^2+4x+3)$
$(x^2+3x+4)(x^3+4x^2+3x-4)$
$(x^2+x-5)(x^3+2x^2-5x-1)$
$(x^2+x-4)(x^3+5x^2-1)$
$(x^2-x-1)(x^3+5x^2-5x-3)$
$(x^2+3x+1)(x^3-5x^2+3x+2)$
$(x^2-x+1)(x^3+2x^2-3x+5)$
$(x^2-4x+5)(x^3+2x^2-3x-3)$
$(x^2+3x-2)(x^3-5x^2+x+2)$
$(x^2+3)(x^3-5x^2-2x-4)$
$(x^2-3x-3)(x^3-2x^2-2)$
$(x^2-4x+1)(x^3-x^2+x-5)$
$(x^2+x+1)(x^3+3x^2+2x+5)$
$(x^2+4x+2)(x^3-2x^2+5x+2)$
$(x^2+3x-3)(x^3+2x-5)$
$(x^2+x-4)(x^3-x^2+4x-5)$
$(x^2+3x-5)(x^3-5x^2-x-1)$
$(x^2-4x-1)(x^3-5x^2+2x-5)$
$(x^2+2x-2)(x^3-5x^2+x+4)$
$(x^2+3)(x^3-x^2-x-3)$
$(x^2-4x-2)(x^3+3x^2-3x+5)$
$(x^2+x+5)(x^3-2x^2-3x-2)$
$(x^2-5x+5)(x^3+4x-3)$
$(x^2+4x-4)(x^3+4x^2+5x-1)$
$(x^2-5x-3)(x^3-3x^2+5x-5)$
$(x^2-x+1)(x^3+3x^2-5x-1)$
$(x^2-5x+1)(x^3-5x^2-x-2)$
$(x^2-5)(x^3+x^2+3x+5)$
$(x^2-4x-4)(x^3-5x^2+2x+5)$
$(x^2-x-4)(x^3-x^2+x+2)$
$(x^2+4x+5)(x^3+5x^2+5x+2)$
$(x^2-x+1)(x^3+2x^2-4x+5)$
$(x^2-3x+3)(x^3-x^2+3x-2)$

7.2 일계수가 아닌 오차식

$(2x^2-x+1)(4x^3-2x^2+5x+4)$
$(x^2+3x-5)(4x^3+5x^2-5x-2)$
$(2x^2+3)(4x^3-2x^2-4x+5)$
$(5x^2+5x-4)(x^3-5x^2-5x-4)$
$(x^2-x+3)(2x^3+2x^2-2x+5)$
$(5x^2+4x-3)(3x^3-4x^2+5x+1)$
$(5x^2+3)(x^3-5x+5)$
$(2x^2+5x-2)(x^3-4x^2-x+3)$
$(3x^2-5x-3)(3x^3-4x^2+3)$
$(3x^2-4x-1)(x^3+x^2+5x+3)$
$(5x^2+2x-1)(4x^3-2x^2+5x-1)$
$(5x^2-4x+2)(4x^3-2x-1)$
$(x^2-3x+3)(4x^3-2x^2-x-3)$
$(4x^2+5x-1)(x^3-2x^2+5x+1)$
$(x^2+3x-2)(5x^3+x^2+1)$
$(x^2+x-1)(2x^3+x^2+4x-5)$
$(5x^2-3x+4)(2x^3+2x-3)$
$(4x^2-5x-4)(x^3+4x^2-x+2)$
$(5x^2-3x-3)(5x^3+x^2-x-4)$
$(4x^2-3x+1)(5x^3+2x^2-x-2)$
$(x^2+2x-2)(4x^3+x^2+3x+5)$
$(4x^2+3x+4)(5x^3-3x^2+4x+3)$
$(5x^2+5x-4)(4x^3-5x^2-4x+1)$
$(3x^2-4x+2)(3x^3+2x^2+2x+5)$
$(5x^2+4x+5)(4x^3+x^2+4x+2)$
$(x^2+2x-4)(4x^3+3x^2-3x+3)$
$(5x^2-x+5)(5x^3-2x^2+3x+2)$
$(5x^2+x-3)(x^3-2x^2+3x+5)$
$(3x^2-3x+1)(2x^3+5x^2+3)$
$(x^2-5x-3)(2x^3-4x^2-1)$
$(2x^2-2x-1)(5x^3+5x^2-5x+1)$
$(x^2+x-3)(3x^3+2x^2-1)$
$(2x^2-2x+5)(x^3+x^2+3x+1)$
$(3x^2+4x-2)(2x^3+5x^2-5x+4)$
$(4x^2-5x-3)(5x^3-5x^2-x+5)$
$(x^2-4x-2)(5x^3+5x-3)$
$(2x^2-2x-5)(3x^3+3x^2-3x-4)$
$(4x^2-x+3)(3x^3-3x^2+3x+2)$
$(3x^2-2x+5)(3x^3-5x^2+3x-4)$
$(3x^2-4x+2)(x^3+3x^2+2x+3)$
$(3x^2-3x+2)(2x^3+5x^2-3x-5)$
$(x^2+x+4)(3x^3-2x^2+4x-2)$
$(5x^2-3x-3)(3x^3+4x^2+2)$
$(2x^2-4x-5)(x^3+5x^2+3x+3)$
$(5x^2+4x+2)(4x^3+3x^2+x-3)$
$(4x^2-3x+3)(2x^3+4x^2+5x-1)$
$(4x^2-3x+1)(x^3-2x^2-5x-5)$
$(3x^2-5x+3)(5x^3+5x^2-x-5)$
$(x^2-x+3)(3x^3+x^2+3x+3)$
$(2x^2+5)(5x^3-5x^2-x+2)$
$(5x^2+4x-4)(x^3+x^2+4x+2)$
$(x^2-5x+3)(2x^3+5x^2-3x+4)$
$(2x^2+4x+5)(3x^3+x^2+5x-1)$
$(3x^2-3x+1)(x^3+3x^2+5x-5)$

$(4x^2-4x+3)(3x^3-4x^2-5x-3)$

$(5x^2+5x+3)(x^3+2x^2+5x+3)$

$(3x^2+1)(3x^3+4x^2-5x+2)$

$(x^2-x+5)(3x^3-2x-2)$

$(5x^2-5x+3)(x^3-4x^2-4x-4)$

$(5x^2-4x-4)(2x^3+3x^2+4x-2)$

$(5x^2-4x+3)(x^3+4x^2+5x+5)$

$(5x^2+2x-4)(4x^3+5x^2-x+4)$

$(5x^2-2x+1)(x^3+4x^2+2x-5)$

$(x^2+3x+4)(3x^3-2x^2+5x-5)$

$(4x^2-x-1)(x^3+3x^2-5)$

$(5x^2-3x+2)(2x^3-5x^2+5)$

$(3x^2+5x+1)(x^3+2x^2-5x+1)$

$(5x^2-3x+1)(4x^3-2x+3)$

$(5x^2-5x+3)(3x^3+4x^2+x+4)$

$(4x^2-5x-5)(3x^3+x^2+5x+5)$

$(x^2+x-5)(4x^3-2x^2-3x-4)$

$(x^2+1)(5x^3+4x^2+3)$

$(3x^2-3x-5)(x^3-4x^2-4)$

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

$(3x^2-4x-5)(4x^3+2x^2+4x+3)$

$(4x^2+x+2)(x^3-5x^2+4x-3)$

$(4x^2-5x-1)(4x^3-5x-4)$

$(3x^2-5x-3)(5x^3+4x^2+3x+3)$

$(5x^2-x-5)(3x^3+3x^2-5)$

$(3x^2+3x+5)(2x^3-2x^2-5x-2)$

$(x^2+5x-3)(3x^3-4x^2+4x-4)$

$(3x^2-x-5)(4x^3-x+4)$

$(4x^2+3x+3)(x^3+3x+3)$

$(2x^2-4x-5)(4x^3-3x^2+3x+4)$

$(3x^2+5)(3x^3+x^2-3x+5)$

$(4x^2-x+5)(5x^3+3x^2-4x-5)$

$(2x^2+1)(5x^3-4x^2+x-5)$

$(x^2-x-5)(2x^3+5x^2+2x+3)$

$(5x^2+1)(2x^3-2x^2-4x-1)$

$(3x^2-4x+5)(2x^3+4x^2+5x+2)$

$(2x^2+4x-5)(2x^3+5x^2+x+3)$

$(4x^2+3x+5)(4x^3+x^2+3x-5)$

$(5x^2-2x+1)(3x^3+x^2-2x-1)$

$(3x^2+3x+5)(5x^3+3x^2+3x-4)$

$(5x^2+x+2)(5x^3+5x^2-4x+4)$

$(4x^2-5x+4)(2x^3-5x^2+2)$

$(4x^2+2x+5)(4x^3+x^2+x-4)$

$(3x^2+3x+1)(2x^3-5x^2-4x+2)$

$(2x^2+4x+5)(5x^3-x^2-3)$

$(4x^2+3)(5x^3-3x^2-3x-2)$

$(4x^2-5x-4)(4x^3-x^2+5x-3)$

$(x^2+x-1)(5x^3+4x^2+4x+3)$

$(2x^2-3x-1)(3x^3+4x^2-3x+5)$

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

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

$(4x^2-3)(3x^3+5x^2+x+4)$

$(3x^2-5)(x^3+4x^2-3x+2)$

$(4x^2-3x-4)(4x^3+5x^2-2x+1)$

$(3x^2+2)(x^3+2x^2+2x+5)$

$(3x^2+2x+1)(5x^3-5x^2-4x+2)$

$(4x^2-4x-5)(3x^3-3x^2+5x-3)$

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

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

$(5x^2-3x-5)(4x^3+x^2-5x+1)$

$(5x^2-2x-4)(x^3+5x^2+4x-2)$

$(4x^2+3x+4)(x^3+2x^2+4)$

$(5x^2-1)(5x^3+2x^2-5x+1)$

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

$(3x^2-x+1)(5x^3+5x^2-x+4)$

$(x^2-5x+5)(5x^3+x^2+4x-1)$

$(x^2-3)(2x^3+3x^2-5x-4)$

$(2x^2+5x-1)(3x^3-3x^2+x+2)$

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

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

$(2x^2-4x-1)(5x^3-5x^2-5x-1)$

$(5x^2+3x-4)(4x^3-2x^2-5x-3)$

$(5x^2-x-1)(5x^3-5x^2+2x+5)$

$(2x^2+2x+5)(5x^3+4x^2+2x-3)$

$(5x^2-5x+2)(5x^3-x^2-3x-4)$

$(2x^2+x+5)(x^3-2x^2-3x+1)$

$(3x^2-x-1)(5x^3-2x^2-2x+4)$

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

$(2x^2+5x-2)(x^3+2x^2+4x+2)$

$(4x^2-x-1)(x^3-3x^2-5x+2)$

$(3x^2+4x+3)(5x^3-3x^2-2x-2)$

$(4x^2-x+3)(x^3-3x-5)$

$(x^2+3x-5)(5x^3-3x^2-4x-4)$

$(3x^2+3x-5)(5x^3-3x^2-3x-5)$

$(2x^2-3)(x^3-5x^2+2x-4)$

$(4x^2+3x+1)(x^3-5x^2+2x-4)$

$(5x^2+2x+1)(2x^3+3x^2-2)$

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

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

$(5x^2-5x-4)(4x^3-4x^2+3)$

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

$(3x^2-4x+4)(3x^3+5x^2-x+4)$

$(2x^2-x+2)(5x^3-4x^2-3x-5)$

$(3x^2+x-3)(4x^3-3x^2-5x-4)$

$(5x^2-4)(4x^3+x^2-x-1)$

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

$(5x^2-3x+4)(2x^3-4x^2-4x-3)$

$(x^2+5x+5)(5x^3-4x^2-4x+1)$

$(x^2+5x+5)(4x^3-5x^2+5x+5)$

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

$(x^2-5)(2x^3-3x^2-3x-2)$

$(x^2-3x+4)(5x^3+4x^2-4x+4)$

$(4x^2+2x-5)(5x^3-x^2-x+1)$

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

$(5x^2-x+2)(x^3+x^2+2x-5)$

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

$(5x^2-x+3)(3x^3+4x^2+2x+4)$

$(4x^2+x+2)(5x^3+5x^2+5x-1)$

$(5x^2+5x+3)(2x^3-3x+5)$

$(4x^2+3x-2)(2x^3-3x^2-3x+5)$

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

$(4x^2-5x+2)(2x^3-x^2+2x-5)$

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

$(4x^2+3x-5)(2x^3-x^2-x+1)$

$(2x^2+4x+3)(5x^3+x^2+4x+4)$

$(4x^2+5)(x^3+5x^2-4x-5)$

$(x^2-5)(3x^3+4x^2-3x-1)$

$(x^2+3x+1)(5x^3-2x^2-x-5)$

$(5x^2+x+4)(x^3+3x^2+4x+1)$

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

$(3x^2+x-5)(2x^3-4x^2+x+3)$

$(5x^2+5x+3)(2x^3-x^2+2x-4)$

$(x^2+3x-5)(5x^3-5x^2-5x-2)$

$(x^2+4x+2)(5x^3-5x^2+2x+3)$

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

$(x^2-5x-2)(5x^3-3x^2+4x-4)$

8. 육차식의 인수분해

8.1 일계수 육차식 1형

$(x^3+2x^2+2x+5)(x^3+x^2+5x-3)$
$(x^3+4x^2+x-4)(x^3+4x^2+x+1)$
$(x^3-5x^2-4)(x^3-5x^2-x+3)$
$(x^3+5x+3)(x^3+4x+1)$
$(x^3-2x^2+3x+2)(x^3+5x^2+2x-1)$
$(x^3-2x^2-x+1)(x^3+5x^2-5x+5)$
$(x^3-x^2+3x+2)(x^3-3x^2-x-3)$
$(x^3-2x^2-2x-4)(x^3+x^2+4x-3)$
$(x^3-5x^2-5x+5)(x^3+2x^2-4x-4)$
$(x^3+3x-5)(x^3+5x^2+3x+5)$
$(x^3+2x^2-5x-5)(x^3-5x^2+3x+3)$
$(x^3-2x^2-2x-5)(x^3+2x^2+2x-3)$
$(x^3-5x^2+5x-5)(x^3+2x^2+2x+2)$
$(x^3+3x^2+2)(x^3+x^2+x-2)$
$(x^3+x^2+5x-4)(x^3-x^2-4x-4)$
$(x^3+3x^2-x-5)(x^3+4x^2+5x-2)$
$(x^3+5x^2-5x+4)(x^3+4x^2-2)$
$(x^3-2x^2+x+5)(x^3+2x^2-5x+5)$
$(x^3+3x^2-4x+5)(x^3-2x^2-3x+3)$
$(x^3+5x^2-3x-5)(x^3-2x^2-5x+1)$
$(x^3-5x^2-3x-4)(x^3-4x^2-5x+2)$
$(x^3+3x^2+5x+4)(x^3+x^2+x-5)$
$(x^3-3x^2+3x+2)(x^3-2x^2-x-1)$
$(x^3-2x^2-5x-3)(x^3+x^2+2x+5)$
$(x^3-5x^2-2x+2)(x^3-4x^2-4x+4)$
$(x^3+5x^2-5x+1)(x^3-3x^2+5x+1)$
$(x^3+5x^2+2x-1)(x^3-3x^2-3x-5)$
$(x^3+5x^2+3x-3)(x^3-3x^2-x-4)$
$(x^3+2x^2-4x+5)(x^3+2x^2+2x-4)$
$(x^3-3x^2+4x-1)(x^3-5x^2-3x-2)$
$(x^3+2x-5)(x^3-3x^2-5)$
$(x^3+2x^2-x+5)(x^3+2x^2-2x+4)$
$(x^3+4x^2+2x-5)(x^3+2x^2-5)$
$(x^3-5x^2-4x+3)(x^3+5x^2+4x+3)$
$(x^3+x^2+5x-4)(x^3-5x^2+x+4)$
$(x^3+2x^2-x-5)(x^3+x^2-4x-1)$
$(x^3+3x^2-x+3)(x^3+5x^2+4x-5)$
$(x^3+4x^2-3x+4)(x^3+4x^2+3x+4)$
$(x^3-x^2-3x+4)(x^3-3x^2-3x-2)$
$(x^3+x^2-2x-4)(x^3-4x^2-3)$
$(x^3-x^2-x-3)(x^3+x^2+x-5)$
$(x^3+2x^2+2x-2)(x^3+4x^2+3x+1)$
$(x^3-3x^2-5x-2)(x^3-3x^2+5x+3)$
$(x^3-5x^2+x-2)(x^3+4x^2-3x+2)$
$(x^3-5x^2-3x+1)(x^3-4x^2-x-1)$
$(x^3+4x^2+2x+3)(x^3+x^2+3x-3)$
$(x^3+2x^2-3x+1)(x^3-5x^2-4x+5)$
$(x^3+2x^2-2x+4)(x^3+5x^2-2x+2)$
$(x^3-5x^2-3)(x^3-x^2+x-3)$
$(x^3-5x^2-1)(x^3-2x^2+x-4)$
$(x^3-5x^2+2x-3)(x^3-x^2+2x+5)$
$(x^3-5x^2+3x+2)(x^3-5x^2-x+3)$
$(x^3+x+3)(x^3+3x^2+3x-4)$
$(x^3+x+4)(x^3-4x^2+x-2)$
$(x^3+3x+5)(x^3+4x+4)$
$(x^3+5x^2-x+2)(x^3+3x^2+5x-5)$
$(x^3-5x^2+5x+4)(x^3-4x^2+5x+2)$
$(x^3-x^2-4x-1)(x^3-2x^2+x+2)$
$(x^3+5x^2-3x-1)(x^3-4x^2+x-2)$
$(x^3-3x^2-4x-3)(x^3-3x^2-3)$
$(x^3+3x^2+2x+4)(x^3-3x^2+4x+4)$
$(x^3-2x^2+4x-4)(x^3+x^2+5x+4)$
$(x^3-4x^2+4x+2)(x^3+2x^2-4x+5)$
$(x^3-5x^2+x-1)(x^3+x^2-5x+2)$
$(x^3-5x^2-2x+5)(x^3-x^2+3)$
$(x^3+4x^2-x+1)(x^3-5x^2+4x+2)$
$(x^3+4x^2+2)(x^3+5x^2+5x-4)$
$(x^3+4x^2-4x+3)(x^3-2x^2+x+2)$

$(x^3+5x^2+x+1)(x^3-2x^2-x-2)$
$(x^3-5x^2-x-1)(x^3-5x^2+4x+3)$
$(x^3+5x^2-4x+3)(x^3-5x^2-5x-2)$
$(x^3+2x^2+3x-1)(x^3-4x^2-x-3)$
$(x^3-4x^2-2x+4)(x^3-4x-1)$
$(x^3-x^2+5x-3)(x^3+4x+4)$
$(x^3-4x^2-5x+5)(x^3-4x^2-2x-3)$
$(x^3-5x^2+3x-3)(x^3-3x^2+2x+4)$
$(x^3-4x^2-x-1)(x^3+5)$
$(x^3+x^2-4x+5)(x^3-5x^2+4x+2)$
$(x^3+2x^2+5x+2)(x^3-x^2+2x+5)$
$(x^3-3x^2+4x+4)(x^3+2x^2+2x+2)$
$(x^3-3x^2+4x+2)(x^3-4x^2-2x+1)$
$(x^3+4x^2-4x+1)(x^3-3x^2+2x+3)$
$(x^3-x^2-2x+1)(x^3-3x^2-4)$
$(x^3+4x^2+5x-5)(x^3-x^2+5x-2)$
$(x^3+3x^2-5x-1)(x^3+5x-2)$
$(x^3-3x^2-5x-4)(x^3+4x^2-4x+3)$
$(x^3+2x^2+4x+5)(x^3+x^2-5x+5)$
$(x^3+2x^2+3x-4)(x^3+3x^2+2)$
$(x^3+4x^2-5x+1)(x^3+5x^2+2x+2)$
$(x^3+5x^2+x+1)(x^3+3x^2-5x-5)$
$(x^3+2x^2+x+5)(x^3-3x^2-5x+5)$
$(x^3-x^2-3x-4)(x^3+2x^2-5x-3)$
$(x^3-4x^2+4x+3)(x^3-4x^2-4x+4)$
$(x^3-x^2+4x-2)(x^3-3x^2+3x-4)$
$(x^3+2x^2+5x-4)(x^3+3x^2+2x-4)$
$(x^3-4x^2-4x+2)(x^3+5x^2-x+5)$
$(x^3-5x^2-2x+3)(x^3-5x+3)$
$(x^3-4x^2-4)(x^3+2x^2-x+1)$
$(x^3+3x-1)(x^3-5x^2+x+4)$
$(x^3-2x^2-1)(x^3+3x^2+5x-5)$
$(x^3+4x^2-4x-5)(x^3+2x^2-4x+3)$
$(x^3-3x^2-3x-1)(x^3-3x^2-2x-4)$
$(x^3-x^2-2x-5)(x^3-2x^2-3x-2)$
$(x^3+4)(x^3-x^2+4x+1)$
$(x^3-4x^2+x+5)(x^3-5x^2-3x+5)$
$(x^3-4x^2+2x+5)(x^3+2x^2+2x-4)$
$(x^3-2x^2+2x+2)(x^3-4x^2-5x-2)$
$(x^3-2x^2-4x-4)(x^3-4x^2-4x+2)$
$(x^3-x-4)(x^3-x^2+2x+3)$
$(x^3-4x^2-1)(x^3+2x^2+3x-4)$
$(x^3-3x^2-4x-3)(x^3+4x^2-4x+1)$
$(x^3-2x^2+4x-2)(x^3-5x^2+x+1)$
$(x^3+2x^2-5x-3)(x^3-x^2+x-4)$
$(x^3-3x^2-5)(x^3-3x-4)$
$(x^3+4x^2-5x+3)(x^3-3x^2-x+5)$
$(x^3+4x^2+4x+2)(x^3+x^2-2x-4)$
$(x^3-4x^2+4x+1)(x^3-4x^2+x-3)$
$(x^3+5x^2-x-4)(x^3-4x^2+x+3)$
$(x^3+2x-2)(x^3+4x^2-5x+5)$
$(x^3-3x-4)(x^3+2x-5)$

8.2 일계수 육차식 2형

$(x^2+2x-5)(x^2+4x-2)(x^2+2x-5)$
$(x^2+x+4)(x^2-4x-1)(x^2+5x-5)$
$(x^2+x+3)(x^2-3x+5)(x^2+2x-4)$
$(x^2+x+5)(x^2+x+2)(x^2-4x-3)$
$(x^2-2)(x^2-2x-1)(x^2+3x+3)$
$(x^2+2x-4)(x^2-2x+4)(x^2-x+3)$
$(x^2-5x-1)(x^2-2x-1)(x^2+3x+5)$
$(x^2+x+4)(x^2+3x+1)(x^2-x+3)$
$(x^2-3x+1)(x^2+x+2)(x^2+x+4)$
$(x^2-5x+1)(x^2-5x-5)(x^2+x+5)$
$(x^2+3x+1)(x^2+3x-1)(x^2+3x+3)$
$(x^2+5x+5)(x^2+4x-1)(x^2+2x-5)$
$(x^2-x-1)(x^2-2x-5)(x^2+3x+1)$
$(x^2+x+4)(x^2-3x+3)(x^2+5x+5)$
$(x^2+4x-2)(x^2-3x-3)(x^2+3)$
$(x^2+2x-1)(x^2+x+3)(x^2+4x+5)$
$(x^2+5x-2)(x^2-2)(x^2+x+5)$
$(x^2-3x-5)(x^2+3x-1)(x^2-x-3)$
$(x^2+x+2)(x^2-4x+2)(x^2-3x+1)$
$(x^2-2x-5)(x^2-2x-5)(x^2-4x+2)$
$(x^2+x-5)(x^2+5x+1)(x^2+2)$
$(x^2+1)(x^2+1)(x^2-2x+3)$
$(x^2-3x-3)(x^2-2x+3)(x^2+x+1)$
$(x^2-3x+4)(x^2+3x+1)(x^2-x+4)$
$(x^2-3x-3)(x^2-4x-1)(x^2-4x+2)$
$(x^2+3x-3)(x^2+1)(x^2-3x+3)$
$(x^2-2x+2)(x^2-4x+1)(x^2+4x-2)$
$(x^2-3x+4)(x^2+2x-2)(x^2+x+1)$
$(x^2+3x+4)(x^2-x-3)(x^2+5x+1)$
$(x^2-2x-1)(x^2-5x-2)(x^2+3)$
$(x^2-4x+1)(x^2+5x+2)(x^2+4x-3)$
$(x^2+x-4)(x^2-4x+2)(x^2-5x+5)$
$(x^2+3x-3)(x^2-4x-3)(x^2+4x+2)$
$(x^2+x+3)(x^2+x+2)(x^2+4)$
$(x^2+3x-1)(x^2-3x+3)(x^2-x+4)$
$(x^2+5x+3)(x^2+4x-3)(x^2-5x+3)$

$(x^2+2x-4)(x^2-3x+5)(x^2-2x+2)$
$(x^2+4x-4)(x^2-2x-5)(x^2-x-3)$
$(x^2+4x-1)(x^2+2x-1)(x^2-3x-1)$
$(x^2-4x+2)(x^2+5x+3)(x^2-5x-1)$
$(x^2+3x-1)(x^2-4x+5)(x^2-5x-1)$
$(x^2-x+5)(x^2+4x+2)(x^2+3x-5)$
$(x^2-5x-2)(x^2-x+2)(x^2-2x+5)$
$(x^2-x+4)(x^2+5)(x^2-3x-1)$
$(x^2-5x+3)(x^2-3x-2)(x^2+4x-4)$
$(x^2-3x-2)(x^2+3x+4)(x^2-5x-1)$
$(x^2-4x-3)(x^2-2x-4)(x^2-3x+5)$
$(x^2-5x-1)(x^2-3x-2)(x^2-4x+5)$
$(x^2+x-3)(x^2+4x+1)(x^2+5x+5)$
$(x^2+3x+1)(x^2+x+3)(x^2-5x+3)$
$(x^2+2x+3)(x^2+x-5)(x^2+2x+2)$
$(x^2+3x+5)(x^2+5x+1)(x^2-x-1)$
$(x^2-x-3)(x^2+5x-3)(x^2+5x+3)$
$(x^2-4x-1)(x^2+2x-4)(x^2-x-1)$
$(x^2+x+2)(x^2-4x-1)(x^2-2x-2)$
$(x^2-x-3)(x^2+4x-2)(x^2+4x-3)$
$(x^2+2x+5)(x^2+3x+5)(x^2-3)$
$(x^2+2x-2)(x^2+x+5)(x^2+5x+3)$
$(x^2-x+1)(x^2-4x+5)(x^2+4x-3)$
$(x^2-5x-2)(x^2-5x+5)(x^2-4x-1)$
$(x^2-2)(x^2-x-1)(x^2-3x-1)$
$(x^2+5x-4)(x^2+2x+2)(x^2+3x-2)$
$(x^2-x+5)(x^2-x+4)(x^2+3x-1)$
$(x^2-2x+5)(x^2+2x+5)(x^2-2x-1)$
$(x^2+5x+3)(x^2-x-3)(x^2+3x-3)$
$(x^2-2x-2)(x^2+3x+1)(x^2+1)$
$(x^2+3x+5)(x^2+3x-3)(x^2+3x+5)$
$(x^2+2x-5)(x^2-5x-5)(x^2+4x-3)$
$(x^2-2x-4)(x^2-x+2)(x^2+x+5)$
$(x^2+2x-5)(x^2+3x+4)(x^2-3x+3)$
$(x^2-x-3)(x^2-5x+5)(x^2-2x-5)$
$(x^2+5x-1)(x^2+4x-1)(x^2-3x+5)$
$(x^2-3x+1)(x^2-3)(x^2+2x-5)$
$(x^2+x-1)(x^2+x-3)(x^2-x-5)$
$(x^2-5x+1)(x^2-4x-4)(x^2-5x+1)$
$(x^2+x+1)(x^2-x-4)(x^2-5x-5)$
$(x^2+5x-5)(x^2-3x-1)(x^2+3x+1)$
$(x^2-4x-2)(x^2-x+2)(x^2+x+2)$
$(x^2-5x+1)(x^2-x-5)(x^2-2x-5)$
$(x^2+4x-1)(x^2-x-1)(x^2+3x-5)$
$(x^2-2x-4)(x^2-x+5)(x^2+5x+3)$
$(x^2+3x+5)(x^2+4x-3)(x^2-5x+5)$
$(x^2-2x-2)(x^2-5x+3)(x^2-2x+4)$
$(x^2-3x-2)(x^2+4x-4)(x^2+x-4)$
$(x^2-x+5)(x^2+x-4)(x^2-3x+5)$
$(x^2-4x+5)(x^2-4x-2)(x^2+x-4)$
$(x^2+3x-5)(x^2+x+3)(x^2-2x+2)$
$(x^2-2x+2)(x^2-4x+5)(x^2-2x-1)$
$(x^2+4x-2)(x^2-x+2)(x^2-4x+2)$
$(x^2+5x+5)(x^2-3x-1)(x^2-3x-1)$
$(x^2+x+5)(x^2+4x+5)(x^2-x+5)$
$(x^2-2x-5)(x^2-3x+5)(x^2-2x+4)$
$(x^2-2)(x^2+4x-3)(x^2+4x+2)$
$(x^2+3x-2)(x^2-3x-1)(x^2-x+5)$
$(x^2+x-4)(x^2+3x-5)(x^2+5x-5)$
$(x^2+5x-3)(x^2-3x-5)(x^2-5x+1)$
$(x^2-4x-3)(x^2+4x+5)(x^2-5x+1)$
$(x^2-3x-2)(x^2+4x+5)(x^2-4x+1)$
$(x^2+5x+5)(x^2+x-5)(x^2+4x-2)$
$(x^2-4x+5)(x^2+2x+3)(x^2-x-3)$
$(x^2-3)(x^2-4x+1)(x^2-x-1)$
$(x^2-3x+4)(x^2+x+3)(x^2+1)$
$(x^2-x+4)(x^2-2x+3)(x^2-5x+1)$
$(x^2-3x+4)(x^2+x-3)(x^2+3x+3)$
$(x^2-5x-1)(x^2-5)(x^2+x-1)$
$(x^2+2x+3)(x^2+5x+3)(x^2+3x+3)$
$(x^2-2x-4)(x^2-x-4)(x^2-5x-1)$
$(x^2+x+5)(x^2+5x-1)(x^2-5x-2)$
$(x^2-2x-5)(x^2-2)(x^2-3x-3)$
$(x^2-4x-4)(x^2-x+3)(x^2-x-1)$
$(x^2-3x-3)(x^2+5x+2)(x^2+5x-1)$
$(x^2+5x+3)(x^2+2x-5)(x^2-3)$
$(x^2-4x+2)(x^2+3x-3)(x^2-2x+4)$
$(x^2-5x+1)(x^2-x+2)(x^2-x-3)$
$(x^2+5x-5)(x^2-3)(x^2+4x-4)$
$(x^2+2x-5)(x^2+3x+5)(x^2-3)$
$(x^2+5x-2)(x^2+2x+3)(x^2-2x-5)$
$(x^2+4x-3)(x^2-2x+5)(x^2+4)$
$(x^2+x+1)(x^2-x-1)(x^2-2x-4)$
$(x^2-3x+3)(x^2-x+5)(x^2-3x-5)$

8.3 일계수 육차식 3형

$(x^2+5x+3)(x^4+2x^3+x^2+x-1)$
$(x^2+4x+1)(x^4-x^3+5x^2+4x+1)$
$(x^2+5x-4)(x^4-x^3+5x^2+3x-2)$
$(x^2+5x-5)(x^4-2x^3-5x^2-2x-3)$

$(x^2+3x+1)(x^4+4x^3+4x^2-3x-2)$
$(x^2-x+1)(x^4+x^3+4x^2+x-5)$
$(x^2+2x+3)(x^4-3x^3-2x^2+3x-5)$
$(x^2+5x-4)(x^4+4x^3+3x^2+3x-2)$
$(x^2+5x+2)(x^4+3x^3-3x^2+4x+2)$
$(x^2+2x+5)(x^4-x^3+3x^2-3x-4)$
$(x^2-5x+2)(x^4-x^3-x^2+4x-1)$
$(x^2+4x+2)(x^4+x+2)$
$(x^2+x-3)(x^4-x^3+3x^2+3x+3)$
$(x^2+3x-3)(x^4+5x^3-4x^2-3x-1)$
$(x^2+3)(x^4-2x^2-x+4)$
$(x^2-4x-3)(x^4+3x^2+2x+5)$
$(x^2-5x-2)(x^4-3x^3+3x^2-x+4)$
$(x^2+x+1)(x^4-3x^3-4x^2+5x+4)$
$(x^2-5x+2)(x^4-4x^3-x-4)$
$(x^2-3x+5)(x^4+3x^2+5x+2)$
$(x^2-5x+2)(x^4-3x^3-5x-4)$
$(x^2+x+4)(x^4+x^3+2x^2-3x+5)$
$(x^2+3x-2)(x^4+3x^3+3x^2+3x-2)$
$(x^2+3x+3)(x^4-x^3-4x^2+3)$
$(x^2+x-3)(x^4+5x^3+x^2-2x+5)$
$(x^2+2x+3)(x^4-2x^3+4x^2+2x-3)$
$(x^2+x-1)(x^4-x^3+5x^2+4x+1)$
$(x^2-3x-2)(x^4+3x^3+4x^2-4x+2)$
$(x^2+2x+4)(x^4+2x^3+5x^2-2)$
$(x^2+x+2)(x^4+3x^3-x^2-4x-2)$
$(x^2+2x+2)(x^4-3x^3+2x^2+2x+1)$
$(x^2+x+1)(x^4-5x^3-4x^2+2x+3)$
$(x^2-4x-3)(x^4-4x^3-3x^2+5x+2)$
$(x^2+3x-5)(x^4+3x^3-4x^2-x-5)$
$(x^2+4x-3)(x^4-2x^3-3x^2-3)$
$(x^2-4x+5)(x^4-x^3+5x^2+4x+5)$
$(x^2+4x+2)(x^4-x^3-4x-5)$
$(x^2-5x-5)(x^4-5x^2+5x-5)$
$(x^2+5x-2)(x^4+x^3+3x^2-3x-1)$
$(x^2-x+2)(x^4-4x^3-4x^2+5x-5)$
$(x^2+x+3)(x^4-2x^3-3x-3)$
$(x^2-5x-3)(x^4-2x^3+3x^2+5)$
$(x^2-2x+2)(x^4+x^3+3x^2-3x-1)$
$(x^2+5x-3)(x^4+3x^3+2x^2-3x+5)$
$(x^2-5x+5)(x^4+2x^3+5x^2-5x-5)$
$(x^2+4x+1)(x^4-5x^3+x^2+2x-4)$
$(x^2-3x-1)(x^4-5x^3-2x^2-2x+4)$
$(x^2-4x-1)(x^4+2x^2-5x-2)$
$(x^2+4)(x^4+x^3-2x^2+x-2)$
$(x^2-2)(x^4+x^3-x^2+5)$
$(x^2+2x+3)(x^4+4x^3-x+1)$
$(x^2-2x-5)(x^4-5x^3-4x-1)$
$(x^2+5x-2)(x^4+4x^3-x+5)$
$(x^2-5x+3)(x^4+2x^2+3x+1)$
$(x^2-3x-3)(x^4+3x^3+x^2-2x+5)$
$(x^2-2x-4)(x^4-3x^3+3x^2+5x+4)$
$(x^2+3x-5)(x^4-5x^3-5x^2-3x-5)$
$(x^2+3x-1)(x^4+3x^3+5x^2+x-4)$
$(x^2-3x-3)(x^4-4x^2+5)$
$(x^2+4x+2)(x^4-5x^3-x^2-2x-3)$
$(x^2-3x-2)(x^4-4x^3+2x^2-1)$
$(x^2+x+3)(x^4-3x^3-5x^2+5x+4)$
$(x^2+3x+4)(x^4+2x^3+2x^2-3x+2)$
$(x^2-5x+2)(x^4+2x^3+5x^2+5)$
$(x^2+5x+3)(x^4-4x^3-4x^2+2)$
$(x^2+5x-3)(x^4+4x^3+x^2+4x-1)$
$(x^2+3x-3)(x^4-5x^3-3x^2+5x-4)$
$(x^2+4x-1)(x^4-x^3+2x^2+2x-1)$
$(x^2+4x-1)(x^4-x^3+5x^2-3x-1)$
$(x^2-2x-1)(x^4+2x^3+2x^2+3x-5)$
$(x^2+5x+2)(x^4-3x^3+2x^2-5)$
$(x^2+4x+1)(x^4+4x^2+5x-2)$
$(x^2-3x+1)(x^4-4x^3-2x+1)$
$(x^2-2x+3)(x^4-2x^3+4x^2-x+1)$
$(x^2+5x-4)(x^4-4x^3+2x^2-2x-3)$
$(x^2+2x-4)(x^4-3x^3+2x-5)$
$(x^2+1)(x^4-3x^3-5x^2-4x-5)$
$(x^2-x-3)(x^4-4x^3-x^2-4x+1)$
$(x^2-x-4)(x^4-5x^3-x^2-4)$
$(x^2+x+4)(x^4-5x^2+x-4)$
$(x^2+3x-1)(x^4-3x^3-x^2+2x+2)$
$(x^2+4x-2)(x^4-2x^3-4x+4)$
$(x^2+5x+2)(x^4-3x^3-3x-3)$
$(x^2+2x+3)(x^4+3x^3+5x^2+x+5)$
$(x^2-2x-1)(x^4+4x^3-x^2-3x-2)$
$(x^2+5x-2)(x^4-4x^3-5x^2+5x+4)$
$(x^2+x+5)(x^4-4x^3-4x^2+4x-3)$
$(x^2-4x-4)(x^4+3x^2-4x+4)$
$(x^2+3x+1)(x^4-3x^3-3x^2+1)$
$(x^2+3x-1)(x^4+4x^3-x^2-2x-1)$
$(x^2+5x+5)(x^4+x^3-4x^2-4x+1)$
$(x^2-5x+5)(x^4+3x^3+3x^2+x-1)$
$(x^2-5x-4)(x^4+2x^3+x^2-3x+5)$
$(x^2-5x+2)(x^4+5x^3+4x+1)$
$(x^2-4x-2)(x^4-5x^3+x^2+x+5)$
$(x^2+3x+1)(x^4+x^3+x^2+2x+3)$
$(x^2+4x+1)(x^4+2x^3-4x^2-5x+4)$
$(x^2-4x-3)(x^4-4x^3+4x-2)$

$$(x^2-5x+2)(x^4-2x^3+5x^2-3)$$
$$(x^2-2x+5)(x^4-4x^3+2x^2-2x-1)$$
$$(x^2+2x+2)(x^4-5x^3-3x^2+x+2)$$
$$(x^2+3x-3)(x^4-3x^3+3x^2-2)$$
$$(x^2+x+3)(x^4-5x^3-4x^2-2x+2)$$
$$(x^2+5x+1)(x^4+3x^3-2x^2-4)$$
$$(x^2+4)(x^4+2x^3-3x^2-3x+5)$$
$$(x^2+x-5)(x^4+3x^3+5x^2+2)$$
$$(x^2+5x+2)(x^4-3x^3+4x^2-5x-3)$$
$$(x^2-5x-4)(x^4+4x^2-2x-2)$$
$$(x^2+4)(x^4-5x^3+x^2+3x+3)$$
$$(x^2+4x+2)(x^4-3x^3-5x^2+x+1)$$
$$(x^2+4x-2)(x^4+5x^3-2x^2+2x+2)$$
$$(x^2+2)(x^4-5x^3-3x^2-3x+1)$$
$$(x^2-4x+2)(x^4-5x^3+3x^2-4x-2)$$
$$(x^2+3x+5)(x^4-5x^3+4x^2+3x-4)$$
$$(x^2-4x-3)(x^4+2x^3+4x^2-5x-5)$$
$$(x^2-x-4)(x^4-5x^3+4x^2-3x-2)$$
$$(x^2+2x-2)(x^4-3x^2-4x+1)$$
$$(x^2+x+2)(x^4-2x^3+5x^2+x-4)$$
$$(x^2-5)(x^4-4x^3+x^2+5x+5)$$
$$(x^2+3x-1)(x^4+5x^3+3x^2+3x+1)$$

8.4 일계수가 아닌 육차식 1형

$$(3x^3-5x^2+3x+5)(4x^3-x^2-2x-2)$$
$$(5x^3-4x^2-x-1)(3x^3+4x^2-3x+1)$$
$$(3x^3-x^2-4x-1)(x^3-x^2+2x+1)$$
$$(4x^3-2x^2+5x-1)(4x^3+x^2-3x+5)$$
$$(2x^3+3x^2+x-4)(x^3-3x^2-5x-5)$$
$$(5x^3-5x^2+5x+4)(2x^3+x^2-x+1)$$
$$(3x^3-x-4)(4x^3+5x^2-4x+2)$$
$$(4x^3-5x^2-x-5)(3x^3-5x^2-4x+5)$$
$$(x^3+x^2+3x-1)(5x^3-4x^2-4x-3)$$
$$(x^3-3x^2-3x-3)(5x^3-x^2+5x+1)$$
$$(x^3-x^2-x-3)(2x^3+2x^2-x+4)$$
$$(3x^3-4x^2+x-5)(x^3+4x^2+4)$$
$$(5x^3-5x^2-2x+5)(3x^3+2x^2+3)$$
$$(4x^3+5x^2-2x-5)(3x^3+3x^2-2x+2)$$
$$(x^3+3x^2+x+2)(2x^3+5x^2+4x+3)$$
$$(2x^3+x^2-4)(2x^3-x^2+x+3)$$
$$(5x^3+4x^2-2x+5)(5x^3+5x+3)$$
$$(x^3-5x^2+5x-2)(4x^3+2x+1)$$
$$(3x^3-5x^2+2x+2)(3x^3-2x^2-5)$$
$$(2x^3+2x^2-3x-5)(x^3+4x^2+3x+3)$$
$$(x^3-2x^2+x-4)(4x^3-x^2-4x-5)$$
$$(2x^3-x^2+2x-2)(5x^3+2x+5)$$
$$(5x^3+x^2+5x+3)(x^3+5x+1)$$
$$(5x^3-5x^2+2x-5)(2x^3+3x^2-2x-2)$$
$$(4x^3-4x+5)(5x^3+3x^2+2x-5)$$
$$(4x^3+5x^2-2)(4x^3+3x^2-3x+1)$$
$$(3x^3+4x^2+5x-4)(x^3-3x^2+4x+2)$$
$$(4x^3+2x^2-3x+2)(5x^3+4x^2-5x+3)$$
$$(x^3+2x^2+2x-1)(4x^3+3x^2+2x+2)$$
$$(x^3-4x^2+2x-3)(3x^3+x^2+5x-1)$$
$$(3x^3-3x^2+4x-5)(5x^3-x^2+5)$$
$$(x^3-3x^2-3x+4)(2x^3-x^2+x-3)$$
$$(5x^3-x^2-4x+1)(5x^3+5x^2-2x+5)$$
$$(3x^3-3x^2-4x-2)(4x^3+4x^2+2x-3)$$
$$(2x^3-x^2+4x+2)(2x^3-x^2+2)$$
$$(2x^3-5x^2-4x-1)(3x^3+5x^2-4x+1)$$
$$(x^3-4x^2+4x+2)(3x^3+4x^2-x+2)$$
$$(3x^3-x^2-x+1)(4x^3+x^2-4x+4)$$
$$(x^3+4x^2-x+4)(2x^3-5x^2+3x+4)$$
$$(2x^3+x-5)(4x^3-2x^2-5x-2)$$
$$(2x^3+3x+3)(3x^3+3x^2-5x+4)$$
$$(5x^3+5x^2-5x+4)(5x^3+4x^2+5x-1)$$
$$(3x^3-5)(5x^3-3x^2-5)$$
$$(2x^3-x^2+3x+1)(3x^3+4x^2+3x-2)$$
$$(2x^3-2x^2-4x+5)(2x^3-x^2-3x-3)$$
$$(5x^3+x^2-2x-2)(5x^3-3x^2-x+5)$$
$$(4x^3-5x^2-3x+2)(4x^3+2x^2+5x+5)$$
$$(3x^3+3x^2-2x+2)(3x^3-2x^2-x-3)$$
$$(5x^3-4x^2+5x+5)(5x^3+4x^2+5x-2)$$
$$(2x^3+4x^2+x+4)(5x^3-x^2-x+3)$$
$$(2x^3+x^2+4x-3)(5x^3-5x^2-3x+4)$$
$$(2x^3-x^2-2x-1)(x^3+x^2+3x+5)$$
$$(4x^3+4x^2-x+5)(2x^3-3x^2-2x-4)$$
$$(2x^3-4x^2-3)(x^3-5x^2-2x+2)$$
$$(2x^3-x-2)(5x^3+5x^2+4x-4)$$
$$(2x^3+3x^2+5x-2)(3x^3-x^2+1)$$
$$(2x^3+3x^2-4x-2)(3x^3+3x^2-x+3)$$
$$(x^3+5x^2+3x-2)(4x^3-2x^2+x+2)$$
$$(3x^3+4x^2+4x-3)(3x^3-4x^2+3x+4)$$
$$(x^3+x^2+3x+1)(3x^3-2x^2+x+4)$$
$$(x^3+3x^2+2x-4)(4x^3-5x-4)$$
$$(4x^3-5x+4)(x^3+5x^2+4x-2)$$
$$(3x^3-5x^2-3x+4)(5x^3-3x+3)$$
$$(4x^3-4x^2-5x+1)(5x^3-5x^2+4x-1)$$
$$(4x^3+5x^2+3x-3)(4x^3+2x^2+5x+2)$$
$$(2x^3-x^2+4)(3x^3-3x^2-5x-5)$$

$$(5x^3+4x+5)(2x^3+3x^2+5x-3)$$
$$(x^3-5x^2+4x+3)(3x^3-x^2-x+1)$$
$$(4x^3+3x^2+x+3)(5x^3+x^2-x-3)$$
$$(2x^3+4x^2+3x-5)(2x^3+4x^2+x+4)$$
$$(5x^3+2x^2+x+5)(2x^3-x^2+3x-3)$$
$$(2x^3+x^2-x-4)(3x^3-4x-3)$$
$$(4x^3-2x^2-5x+2)(2x^3-x^2-3x-2)$$
$$(2x^3-3x^2+3x-5)(4x^3-4x^2+4x-5)$$
$$(4x^3+5x^2-3x-3)(5x^3-x^2-2x+1)$$
$$(3x^3+x^2+3)(5x^3+x^2-3x-2)$$
$$(x^3-4x^2+3x-1)(4x^3-x^2+x+5)$$
$$(3x^3-3x^2-5x+3)(4x^3+2x^2-x-2)$$
$$(3x^3+x^2+3x-3)(3x^3+x^2-5x-4)$$
$$(5x^3-5x^2-1)(4x^3-2x^2+2x+1)$$
$$(5x^3-2x^2+2x+1)(2x^3+5x^2+3x-4)$$
$$(5x^3+5x^2+5x+1)(x^3-4x^2+2x-4)$$
$$(x^3+2x^2-5x-2)(3x^3-3x^2-4x-2)$$
$$(5x^3-2x^2+2x-3)(x^3+4x^2-x-1)$$
$$(5x^3+5x^2-5x+3)(2x^3-x^2+4)$$
$$(x^3-2x^2+3x+1)(2x^3+3x^2+4x-1)$$
$$(2x^3+4x^2+5x+4)(x^3-2x^2+4x+2)$$
$$(3x^3-3x^2-3x+1)(5x^3+4x^2-x-3)$$
$$(2x^3-x^2-x-1)(4x^3-4x^2-x-1)$$
$$(3x^3-x^2+5x+4)(4x^3-4x+3)$$
$$(x^3+4x-2)(2x^3-5x^2+4x+2)$$
$$(3x^3-x^2-2x+4)(x^3+4x^2-5x+5)$$
$$(5x^3+3x^2-5x-5)(2x^3-2x^2+3x-4)$$

$$(4x^3-4x^2+x+1)(2x^3+3x^2+5x-5)$$
$$(3x^3+3x^2+5x-1)(4x^3-2x^2-x-4)$$
$$(4x^3+4x^2+4x+5)(2x^3-5x^2-5x+1)$$
$$(5x^3+x^2+3x-4)(5x^3+4x^2-2x-4)$$
$$(4x^3+x^2-5x-5)(5x^3+3x^2-1)$$
$$(x^3-3x^2+1)(3x^3-5)$$
$$(5x^3-4x^2-2x-3)(3x^3+4x^2+3x-5)$$
$$(3x^3-x^2+3x-2)(2x^3-3x^2-5x-3)$$
$$(4x^3+x^2-3x+1)(4x^3+2x^2-4x+5)$$
$$(3x^3-4x+2)(2x^3-5x^2-5x-5)$$
$$(5x^3+x^2-4)(x^3+4x-1)$$
$$(4x^3+5x^2-2x-5)(x^3+4x^2+4x+2)$$
$$(5x^3-5x^2-4x+3)(4x^3+4x^2+2x-1)$$
$$(3x^3+3x+2)(x^3+3x^2+5x-1)$$
$$(3x^3-x^2+3)(3x^3-3x^2+4x-2)$$
$$(x^3+x^2-2x+1)(2x^3+4x^2-5x+4)$$
$$(3x^3+4x^2+5x-4)(2x^3-2x^2+x+4)$$
$$(4x^3-5x^2+x+2)(5x^3-4x^2+2x+5)$$
$$(3x^3+5x-4)(x^3+x^2-4x+3)$$
$$(4x^3+4x^2+2x+3)(2x^3-5x^2-4)$$
$$(2x^3-5x^2+5x-4)(3x^3-3x-1)$$
$$(2x^3+5x-5)(3x^3-3x^2+x-2)$$
$$(5x^3+2x^2-x-1)(x^3-5x^2+x+4)$$
$$(x^3-3x^2+4x+2)(5x^3-x^2+x-1)$$
$$(5x^3-x^2-x+1)(x^3+5x-4)$$
$$(3x^3+3x^2+2)(5x^3-3x^2-2x-5)$$
$$(5x^3+5x^2+1)(x^3+x^2-x+5)$$

8.5 일계수가 아닌 육차식 2형

$$(2x^2-x-5)(2x^2+4x+3)(4x^2+5)$$
$$(4x^2+3)(5x^2-2)(2x^2-x+2)$$
$$(4x^2-4x-1)(x^2-4x-4)(2x^2-3x+5)$$
$$(4x^2+x-1)(x^2-5x+2)(2x^2-2x-3)$$
$$(x^2+x-5)(x^2+2x+5)(2x^2-4x+5)$$
$$(5x^2-4x+1)(3x^2+x-5)(3x^2-5x-1)$$
$$(3x^2-4)(5x^2+x-1)(5x^2+4x-4)$$
$$(x^2+3)(2x^2-3x-3)(2x^2-4x-1)$$
$$(3x^2-4x+3)(x^2-5x+3)(3x^2+3x-1)$$
$$(4x^2+5x-1)(5x^2-2x+4)(2x^2+3x+4)$$
$$(5x^2-x+3)(3x^2-4)(x^2+2x-4)$$
$$(4x^2-5x-5)(3x^2+3x+2)(3x^2-2x-2)$$
$$(3x^2+5x-1)(2x^2+2x-1)(x^2+1)$$
$$(5x^2+2x+1)(x^2+2x+5)(x^2+5x-4)$$
$$(2x^2+2x+1)(3x^2-4x+3)(4x^2-5x-1)$$
$$(2x^2-x-4)(5x^2+x-1)(5x^2+2x-5)$$
$$(3x^2+4x+5)(x^2-2x+4)(5x^2-4x-5)$$

$$(5x^2+3x-5)(5x^2-4x-5)(4x^2+5x+4)$$
$$(x^2-4x+2)(4x^2+3x+1)(3x^2-x+5)$$
$$(x^2+3x-3)(x^2+2x-4)(5x^2+2x-4)$$
$$(x^2-2)(2x^2-5x-5)(4x^2+3x+1)$$
$$(2x^2-x+1)(2x^2-x+2)(x^2-x+4)$$
$$(3x^2-4x+3)(4x^2+4x+5)(5x^2-3x+2)$$
$$(2x^2+4x-5)(2x^2+5x+4)(2x^2+2x-3)$$
$$(x^2-x+5)(4x^2-2x+3)(x^2+3x-3)$$
$$(5x^2+x+4)(5x^2+4x+4)(2x^2+2x+3)$$
$$(5x^2-2x+5)(4x^2+4x-5)(2x^2-5x-5)$$
$$(x^2-2)(5x^2+4x-2)(3x^2+x+2)$$
$$(x^2+1)(5x^2+x-3)(3x^2+2x+5)$$
$$(x^2-3x+4)(5x^2+4x-3)(4x^2+4x-5)$$
$$(4x^2+x-4)(x^2+4x+5)(2x^2-4x+5)$$
$$(x^2-x-1)(2x^2+4x-1)(5x^2-x+4)$$
$$(4x^2-x-1)(3x^2+4x-3)(x^2-3x-5)$$
$$(5x^2+5x+4)(2x^2+4x+5)(x^2+x+1)$$

$(2x^2-5x-4)(5x^2+x+3)(3x^2-4x-2)$
$(3x^2+3x+1)(5x^2+4x+4)(5x^2+x-2)$
$(2x^2+5x+5)(x^2-4x-4)(2x^2+x-2)$
$(2x^2+3x+2)(4x^2+x-4)(3x^2+4x-3)$
$(x^2+4x-3)(x^2-5x+1)(5x^2+x-2)$
$(2x^2-x+2)(x^2+3x+5)(x^2-5x+2)$
$(2x^2-5x-5)(5x^2+4x+2)(2x^2-x-4)$
$(3x^2+3x+4)(3x^2+5x+5)(5x^2-5x-2)$
$(5x^2+2)(5x^2-5x-2)(5x^2+5x-1)$
$(x^2-x-5)(3x^2-5x+4)(2x^2+5)$
$(2x^2-3x+4)(x^2-2x+4)(2x^2+3x-3)$
$(5x^2-x+3)(5x^2+5x-4)(4x^2+x+3)$
$(x^2-3x+5)(x^2+x-3)(2x^2-x-2)$
$(5x^2-x+3)(5x^2-3x-4)(5x^2+2x+1)$
$(5x^2-5x-2)(5x^2+5x-1)(4x^2+4x-5)$
$(5x^2-4x-4)(x^2+4x-3)(2x^2+3x-1)$
$(4x^2+3x+4)(4x^2+3x-4)(3x^2-1)$
$(4x^2-3x-3)(4x^2-5x-2)(x^2+5x+2)$
$(3x^2+x+5)(x^2+3x-3)(x^2+x-3)$
$(4x^2-2x-3)(3x^2+2x+5)(4x^2-3x+4)$
$(2x^2-3x-3)(4x^2-5x-5)(x^2-3x+3)$
$(3x^2-4x-2)(2x^2+5x-4)(4x^2+x+2)$
$(x^2+3x+1)(4x^2+3x+1)(x^2+4x+5)$
$(4x^2+5)(5x^2+5x+1)(x^2+2x+2)$
$(2x^2-x-5)(3x^2-4x+5)(2x^2-x+4)$
$(2x^2+4x+3)(x^2+x-5)(x^2-x+1)$
$(3x^2+2x+1)(2x^2+1)(5x^2+4)$
$(5x^2-4x+3)(2x^2+4x+5)(3x^2+5x-4)$
$(3x^2-x+2)(2x^2-1)(4x^2+3x+4)$
$(4x^2-x+2)(x^2-2x-2)(x^2-5)$
$(2x^2+3x+3)(x^2+4x+1)(x^2+x+2)$
$(x^2-x+2)(3x^2+4x+4)(4x^2+3x-3)$
$(4x^2+4x-5)(x^2-4x-2)(2x^2-2x+5)$
$(5x^2+2x+2)(3x^2-4x+5)(x^2+x-5)$
$(5x^2-5x+1)(5x^2+3x-4)(3x^2+3x+1)$
$(4x^2-5x-4)(4x^2-3x+4)(x^2+4x-1)$
$(4x^2+3x+5)(x^2+4x-4)(3x^2+5x+5)$
$(4x^2+x+4)(x^2-5x-5)(4x^2-2x+5)$
$(5x^2-5x+4)(5x^2-5x+2)(x^2+x-1)$
$(4x^2-3x+1)(2x^2+x+5)(2x^2-x-4)$
$(x^2+2x+2)(2x^2+4x-1)(3x^2-2x+2)$
$(2x^2-4x+1)(5x^2+3x-4)(3x^2-3x-1)$
$(5x^2-4)(5x^2-1)(x^2+x+2)$

$(3x^2+2x+1)(5x^2-2x-1)(5x^2-4)$
$(3x^2+x+1)(5x^2-2x+3)(4x^2+5x+3)$
$(3x^2-4x-2)(4x^2+x-4)(5x^2+3x+5)$
$(4x^2-4x-5)(5x^2-2x+1)(3x^2-3x-1)$
$(x^2-2x+5)(3x^2-5x+5)(4x^2-3x-5)$
$(2x^2+x+4)(2x^2-4x-5)(3x^2+x+3)$
$(4x^2-5x-4)(2x^2+3x+5)(5x^2-5x-2)$
$(x^2+5x-1)(3x^2+4x-3)(2x^2+x-4)$
$(x^2+x-4)(4x^2+2x-5)(3x^2+3x+4)$
$(x^2+5x+5)(5x^2-5x+1)(x^2+x+2)$
$(x^2+x+3)(x^2+3x+4)(2x^2-5x-4)$
$(2x^2+x+3)(3x^2-5x+4)(x^2+3x-2)$
$(4x^2-2x+1)(x^2-2x+3)(2x^2-3x+3)$
$(5x^2-3x+5)(2x^2-4x-5)(5x^2-4x-4)$
$(5x^2+5x+2)(5x^2-3x-3)(2x^2+x+5)$
$(5x^2-4x-3)(5x^2-4x-4)(4x^2-3x+1)$
$(2x^2-1)(5x^2+2x+1)(2x^2-5)$
$(x^2-3)(2x^2+5x+1)(3x^2+2x+4)$
$(3x^2-x-5)(3x^2-4x+4)(2x^2-x+4)$
$(3x^2-4x+4)(2x^2-x-4)(2x^2-x-2)$
$(x^2-5x-2)(2x^2+3x+2)(5x^2-2x-1)$
$(4x^2+2x-5)(5x^2+2)(4x^2+3x+3)$
$(4x^2-x+4)(3x^2+3x+4)(x^2-4x-1)$
$(2x^2+5)(2x^2+x-5)(3x^2-x+3)$
$(5x^2-2x-5)(5x^2+x+5)(4x^2+2x-5)$
$(5x^2+3x+2)(2x^2-3x-3)(5x^2-x-2)$
$(5x^2-5x-1)(2x^2-x+2)(5x^2+x+1)$
$(x^2-2x+4)(x^2+4x-4)(2x^2+4x+3)$
$(2x^2+x+3)(5x^2-3)(4x^2-3x+1)$
$(2x^2+2x+5)(2x^2+2x+3)(2x^2-2x+3)$
$(4x^2-3x-5)(2x^2+5x-4)(5x^2+3x+3)$
$(4x^2-5x+4)(5x^2-5x+2)(5x^2+x+3)$
$(4x^2+5x-1)(3x^2-3x-4)(3x^2-2x+3)$
$(5x^2-2x-1)(5x^2-1)(4x^2+5x-3)$
$(5x^2+3x-3)(2x^2-4x-5)(x^2+5x-3)$
$(4x^2-3x+1)(3x^2+4)(x^2+5x-4)$
$(x^2+4x+5)(x^2+4x+2)(3x^2+2)$
$(3x^2+2x+4)(5x^2-4x+3)(4x^2-x+4)$
$(3x^2+x-1)(3x^2+2x-2)(5x^2-3x+4)$
$(3x^2+x+5)(3x^2-3x+1)(2x^2-5x+4)$
$(4x^2+3x+4)(x^2+5x-2)(3x^2-5x-5)$
$(2x^2-x+2)(x^2+x+3)(3x^2-x-5)$
$(3x^2-1)(5x^2-5x+3)(2x^2-x-2)$

8.6 일계수가 아닌 육차식 3형

$(x^2+4x+1)(3x^4+4x^3+5x^2+4x-1)$

$(4x^2-5x+2)(2x^4+4x^3-5x^2-4x+5)$

$(2x^2-5x-4)(5x^4-2x^3-2x^2-5x+1)$

$(4x^2+x-1)(x^4-3x^3-4x^2-3x+5)$

$(4x^2-3x-5)(5x^4+3x^3+3x^2-5x+3)$

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

$(4x^2-x+2)(4x^4-x^3-3x^2-2x+5)$

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

$(5x^2+4x-5)(5x^4-3x^3+x^2-3x+2)$

$(x^2+2x+2)(3x^4-4x^2+5x+1)$

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

$(5x^2-3x+4)(5x^4-5x^3+3x^2+3x+2)$

$(5x^2-4x+3)(x^4+x^3+x^2-4x+2)$

$(x^2-x-5)(2x^4-x^3-x^2+x+2)$

$(2x^2+3x-3)(3x^4-4x^3-3x^2+x+5)$

$(5x^2-x+5)(4x^4+x^3+2x^2+4x-2)$

$(2x^2-3x-1)(5x^4-2x^3-4x^2-3x+2)$

$(3x^2+4x-3)(4x^4+5x^3+3x^2+3x+5)$

$(x^2-5x+5)(5x^4-5x^2+4x+3)$

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

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

$(4x^2+3x-4)(x^4-4x^3+3x^2+5x-4)$

$(x^2+5x+5)(3x^4+5x^2-4x-1)$

$(5x^2-2x+3)(3x^4-2x^3-2x^2+4x+2)$

$(x^2+3x+4)(5x^4-4x^3+5x^2+x+5)$

$(3x^2-3x-5)(3x^4+3x^3+x^2-5x-3)$

$(3x^2+4x+5)(5x^4-x^3+2x^2+5x+1)$

$(5x^2+x+4)(x^4+3x^3+5x^2+5x+4)$

$(x^2-4x+5)(3x^4+x^3-4x^2+5)$

$(5x^2-4x+3)(x^4-5x^3+5x^2+5x-2)$

$(x^2-2x+5)(3x^4-5x^3-x^2-3x-5)$

$(2x^2-5x-1)(x^4+2x^3+5x^2-5x-4)$

$(4x^2+x+2)(x^4+x^3-2x^2-3x-5)$

$(3x^2+5x+4)(5x^4-5x^3-2x^2-x+5)$

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

$(5x^2-3x-4)(3x^4+2x^3+x-5)$

$(3x^2+5x+4)(x^4-4x^3+x^2+5x+5)$

$(3x^2+3x-1)(2x^4-3x^2-5x-3)$

$(5x^2-x+1)(4x^4-4x^3+2x^2-x-5)$

$(5x^2-3x+2)(3x^4+5x^3+x^2-3x+4)$

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

$(2x^2+5x+4)(2x^4+4x^3-2x^2+5)$

$(3x^2-5x-5)(x^4-5x^3-3x^2+3x+2)$

$(2x^2+x-5)(5x^4+x^3+3x^2+5x+1)$

$(x^2+x+5)(3x^4-x^3-4x^2+2x-5)$

$(x^2-3)(2x^4+x^3-x^2-2x+5)$

$(5x^2-4x-5)(x^4+x^3-x^2+4x+1)$

$(5x^2+x+3)(3x^4-5x^3-4x^2+5x+4)$

$(2x^2-x+2)(3x^4-4x^3-5x-4)$

$(x^2-2x+2)(4x^4+3x^3+2x^2+3x+5)$

$(3x^2+4x-2)(4x^4-x^3+5x^2-5)$

$(5x^2-x+2)(2x^4+3x^3-4x^2+2x-2)$

$(4x^2+2x+5)(3x^4-5x^3+2x^2-x-4)$

$(4x^2+5x+4)(3x^4-3x^3+4x^2+x-3)$

$(2x^2-5x+5)(x^4+3x^3+2x^2-2x+1)$

$(3x^2-3x-1)(2x^4+x^3+5x^2+x-1)$

$(4x^2-2x+1)(5x^4-x^3+3x^2-5x-5)$

$(3x^2-3x+4)(5x^4-5x^3+x^2+3x+4)$

$(5x^2-5x+4)(x^4+2x^3-3x^2+x+2)$

$(5x^2+5x+2)(4x^4-5x^3+5x^2-3x+3)$

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

$(x^2+2x+3)(3x^4+4x^3+4x^2+5x+1)$

$(2x^2-2x+1)(5x^4+5x^3+2x^2+5x-2)$

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

$(5x^2-5x+2)(2x^4-x^3+2x^2-3x-2)$

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

$(4x^2-3x+5)(5x^4+3x^3-3x^2+x-3)$

$(3x^2+3x+2)(5x^4+3x^3+4x^2+2x+5)$

$(5x^2+2)(x^4-2x^3+3x^2+3x-1)$

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

$(3x^2+5x+5)(4x^4+2x^3+2x^2+2x-1)$

$(2x^2-4x+5)(5x^4-4x^3-3x^2-2x+3)$

$(4x^2-2x+5)(4x^4+2x^3+5x^2-4x-1)$

$(4x^2+x-2)(5x^4+2x^3+2x^2-5x-3)$

$(5x^2-4x+3)(2x^4+x^3-x^2-5x+5)$

$(x^2+3x+5)(3x^4+3x^3+3x^2+4x-3)$

$(3x^2+4x-5)(5x^4+4x^3+3x^2+2x+2)$

$(4x^2-4x+3)(4x^4-2x^3-4x^2-5x-5)$

$(2x^2-4x+3)(x^4+4x^3+5x^2+4x-2)$

$(2x^2+4x+5)(3x^4-5x^3-4x-5)$

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

$(x^2-5x-4)(5x^4+4x^3-3x^2-5x-4)$

$(5x^2-2x-4)(x^4-4x^3-3x^2-4x-5)$

$(2x^2-5x-4)(5x^4+5x^3+2x^2-5x+4)$

$(5x^2-5x+4)(x^4+5x^3+5x^2+x-2)$

$(x^2-3x+3)(5x^4+3x^3-5x^2+3x+3)$

$(5x^2-2x-2)(4x^4+2x^3+2x^2-2x-3)$

$(2x^2-x+5)(3x^4-2x^3-2x^2+4x-2)$

$(5x^2+5x-1)(2x^4-3x^2+2x+2)$

$(5x^2-5x+4)(4x^4-3x^3-x^2-3x+4)$

$(4x^2+4x-5)(4x^4+2x^3+5x^2+2x+3)$

$(5x^2+x+3)(3x^4+4x^3-x^2+3)$

$(2x^2-5x+5)(4x^4+3x^3-x^2-3x+3)$

$(4x^2-5x-5)(x^4-4x^3-4x^2+x-3)$

$(3x^2-x-5)(4x^4-2x^3-4x^2-4x-5)$

$(x^2-5x+5)(4x^4+5x^3-5x^2+4x-3)$

$(5x^2 - x + 5)(2x^4 + 4x^3 + 5x^2 - 5x - 2)$

$(2x^2 - 4x + 3)(5x^4 + 4x^3 - 2x^2 + 5x - 3)$

$(3x^2 - 3x + 1)(5x^4 - 4x^3 - 2x^2 - 2x - 2)$

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

$(2x^2 - 5)(x^4 - 2x^3 - 4x^2 - 5x - 3)$

$(3x^2 + 2x - 3)(4x^4 - 4x^3 + 4x^2 - x + 5)$

$(4x^2 - 5x + 3)(3x^4 + 2x^3 - x^2 + 2x - 2)$

$(3x^2 + 5x - 3)(x^4 - 3x^3 + x^2 + 5x + 1)$

$(5x^2 + x + 1)(3x^4 + 2x^3 + 2x^2 + 4x - 4)$

$(4x^2 + 3x + 4)(4x^4 - 2x^3 - 3x^2 - 4x - 5)$

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

$(3x^2 - 5)(x^4 + 5x^3 - x^2 + 4x + 5)$

$(2x^2 - 3x + 3)(4x^4 + 3x^3 + 5x^2 - 5x - 3)$

$(5x^2 - 4x + 2)(x^4 + x^3 - x^2 - x - 3)$

$(5x^2 + x + 4)(5x^4 + 3x^3 - x^2 + 4x - 4)$

$(5x^2 - 3x + 4)(x^4 + 2x^3 + x^2 - 4x + 1)$

$(4x^2 - 3x - 3)(4x^4 - 3x^3 - 5x^2 + 2x + 1)$

$(2x^2 - 5x - 4)(4x^4 + x^3 + 4x^2 - x + 2)$

$(5x^2 - 2x + 1)(3x^4 - 3x^3 + 4x^2 - 4x + 4)$

$(3x^2 - 4x - 5)(3x^4 + x^3 + 2x^2 - x + 2)$

$(2x^2 - 3x - 4)(5x^4 + 2x^3 - x^2 + 2)$

$(2x^2 - 4x - 1)(x^4 - 5x^3 - x^2 + 3x - 5)$

$(3x^2 - 4x - 3)(5x^4 - x^3 + 3x^2 - 3x + 5)$

$(2x^2 + 5x - 4)(4x^4 - 4x^3 - 2x^2 + 4x - 1)$

9. 칠차식의 인수분해

9.1 일계수 칠차식 1형

$$(x^2+3x+1)(x^2-4x-1)(x^3+4x^2-5x+3)$$
$$(x^2+5x+2)(x^2+5x+2)(x^3+2x^2+5x+5)$$
$$(x^2-5x+1)(x^2-3x+5)(x^3+2x^2+4x-2)$$
$$(x^2-2x-4)(x^2-4x-4)(x^3-5x^2-5x-1)$$
$$(x^2-2x-4)(x^2+5)(x^3-2x^2+2x-3)$$
$$(x^2+2x-4)(x^2+1)(x^3-2x^2+2x-3)$$
$$(x^2+4x-2)(x^2-2x-1)(x^3-x^2+2x+3)$$
$$(x^2-5x-5)(x^2+3x+4)(x^3+4)$$
$$(x^2-x+2)(x^2+4x+2)(x^3-5x^2+2x+4)$$
$$(x^2+3x+3)(x^2-5x-4)(x^3-x^2+3x-5)$$
$$(x^2-x-4)(x^2-2)(x^3+3x-1)$$
$$(x^2+x+5)(x^2+2)(x^3+5x^2+x-1)$$
$$(x^2+2x+5)(x^2+x+3)(x^3-x^2-5x+3)$$
$$(x^2+5x-3)(x^2-3)(x^3+5x^2+2x+3)$$
$$(x^2+3)(x^2-4x-2)(x^3-4x^2-x+5)$$
$$(x^2-4x+1)(x^2+4x+2)(x^3-4x^2+4x-2)$$
$$(x^2-2)(x^2+2x-1)(x^3+5x^2-3x+5)$$
$$(x^2-5x-3)(x^2+5x+3)(x^3+3x^2-5x+5)$$
$$(x^2+5x-4)(x^2+5x-4)(x^3-2x^2+5x-5)$$
$$(x^2-3x+1)(x^2-2x+2)(x^3-5x^2-3x+5)$$
$$(x^2+3x+4)(x^2-3x+1)(x^3-3x^2+4x-1)$$
$$(x^2+2x-1)(x^2-x+4)(x^3+4x^2+3x+2)$$
$$(x^2+3x+3)(x^2-x+2)(x^3-3x+1)$$
$$(x^2-3x-2)(x^2+5x-1)(x^3-x^2+3x+4)$$
$$(x^2+4x+5)(x^2+3x-2)(x^3+x^2-x-2)$$
$$(x^2+3x+3)(x^2-2x+5)(x^3+4x^2-2x+4)$$
$$(x^2-2x+5)(x^2-5x+3)(x^3-x^2-5x-5)$$
$$(x^2-5x-5)(x^2+4x+2)(x^3+x^2-5x-3)$$
$$(x^2+x-4)(x^2+2x+3)(x^3+5x^2-2x-5)$$
$$(x^2+3x+5)(x^2-x+2)(x^3-2x+5)$$
$$(x^2+2)(x^2-5x-5)(x^3-4x^2+5x-1)$$
$$(x^2+5x-3)(x^2-x+2)(x^3+4x^2+3x-3)$$
$$(x^2+4x-4)(x^2-2x-1)(x^3-2x^2-x+4)$$
$$(x^2+x-3)(x^2+3x+4)(x^3+4)$$
$$(x^2+3x-5)(x^2-3x-3)(x^3-x^2-x-4)$$
$$(x^2-2x+3)(x^2+5x+3)(x^3+5x-3)$$
$$(x^2+x-5)(x^2-x+1)(x^3+4x^2+x+2)$$
$$(x^2+5)(x^2+4x-4)(x^3+3x^2-2x+4)$$
$$(x^2-3x-2)(x^2+x-4)(x^3-5x^2+3)$$
$$(x^2-2x-4)(x^2-x+4)(x^3-5x^2+2x-1)$$
$$(x^2-4x-2)(x^2-2x+5)(x^3+2x^2+x+4)$$
$$(x^2+x+2)(x^2+4x-2)(x^3-x^2-3x-3)$$
$$(x^2-4x-2)(x^2+3x+4)(x^3+3x^2-3x+5)$$
$$(x^2-2x+5)(x^2-x+5)(x^3+x^2-2x+3)$$
$$(x^2-x+4)(x^2+4x+5)(x^3-3x^2-2x-1)$$
$$(x^2+3x+5)(x^2-x+5)(x^3+4x^2+2x+5)$$
$$(x^2-4x+5)(x^2-5x-4)(x^3+x^2-5x+5)$$
$$(x^2+4x+2)(x^2-x-1)(x^3-2x+2)$$
$$(x^2+5x-3)(x^2+4x+1)(x^3-3x^2+3x+3)$$
$$(x^2+4x-2)(x^2-3x+3)(x^3+2x^2+2x-4)$$
$$(x^2+3x+1)(x^2-2x-4)(x^3-2x^2-4x-3)$$
$$(x^2+x+5)(x^2-x+1)(x^3+3x^2+3x+3)$$
$$(x^2-4x+2)(x^2+5x+1)(x^3-3x^2+5x+4)$$
$$(x^2-2x+5)(x^2+5x-3)(x^3-x^2+4x-5)$$
$$(x^2-4x+2)(x^2-3x-1)(x^3+3x^2+3x-1)$$
$$(x^2+1)(x^2+3x-5)(x^3+4x^2+1)$$
$$(x^2+5x-5)(x^2+x-5)(x^3+2x-1)$$
$$(x^2+1)(x^2+2x+4)(x^3+x^2-3x-4)$$
$$(x^2+3)(x^2-4x-4)(x^3-x^2+3x+2)$$
$$(x^2-3x+3)(x^2-3x+3)(x^3+5x^2+4x+4)$$
$$(x^2+5x+3)(x^2-2x+3)(x^3+x^2+5x-4)$$
$$(x^2-3x+1)(x^2-2x+5)(x^3+2x^2-4)$$
$$(x^2-2x-4)(x^2+5x-1)(x^3+3x^2+5x-3)$$
$$(x^2+x+3)(x^2-2x-4)(x^3+3x^2-5x-3)$$
$$(x^2-5x+5)(x^2+x-4)(x^3-2x-5)$$
$$(x^2-5x-3)(x^2-4x-2)(x^3+2x^2-5x-1)$$
$$(x^2-x-5)(x^2+5x-1)(x^3+x+4)$$
$$(x^2+3x-2)(x^2-5x-4)(x^3-3x^2-x+2)$$

$$(x^2+3x-1)(x^2-5x+5)(x^3+x^2+2)$$
$$(x^2+5x-3)(x^2+5x+5)(x^3-3x^2-2x+3)$$
$$(x^2+3x-2)(x^2-3x+4)(x^3-4x-2)$$
$$(x^2-x+5)(x^2+4x+2)(x^3-x^2+5)$$
$$(x^2-x+2)(x^2+4x-1)(x^3-2x^2+3x+4)$$
$$(x^2-2x-1)(x^2+2x-2)(x^3-2x^2+3x-1)$$
$$(x^2+4x-2)(x^2+5x+3)(x^3+4x^2+3x+5)$$
$$(x^2+3)(x^2+2x-1)(x^3+2x^2+x-3)$$
$$(x^2+5x+1)(x^2+5x+2)(x^3-3x^2-5x+2)$$
$$(x^2+x-3)(x^2-5)(x^3+3x^2-3x-2)$$
$$(x^2-5x-5)(x^2-5x-2)(x^3-2x-3)$$
$$(x^2+4x+5)(x^2-3)(x^3+4x^2+4x-3)$$
$$(x^2-2x-1)(x^2+x+4)(x^3-2x^2+2x-3)$$
$$(x^2-5x+2)(x^2+4x+1)(x^3-4x^2+3x-3)$$
$$(x^2+x+3)(x^2+5x-4)(x^3+x-1)$$
$$(x^2+4x-4)(x^2+4x-2)(x^3+x^2-4x-1)$$
$$(x^2+3)(x^2+4x+2)(x^3-4x^2-x-5)$$
$$(x^2-x-3)(x^2+4x-2)(x^3+3x^2+x-4)$$
$$(x^2-5x+3)(x^2+1)(x^3+3x^2+5)$$
$$(x^2+4x-2)(x^2+5x-4)(x^3-5x^2-2x-5)$$
$$(x^2-x-3)(x^2+3x+1)(x^3+x^2+4x+5)$$
$$(x^2+3x+5)(x^2+3)(x^3-5x^2+2x+4)$$
$$(x^2-2x-4)(x^2-5x+1)(x^3+2x^2+1)$$
$$(x^2+4x+2)(x^2+2x+3)(x^3+5x+2)$$
$$(x^2-x+4)(x^2+5x-5)(x^3-x^2-1)$$
$$(x^2+2x+5)(x^2+5x-3)(x^3+4x^2+5x-2)$$
$$(x^2-2x-1)(x^2-x+3)(x^3+3x^2-x+3)$$
$$(x^2-2x-5)(x^2+3x-3)(x^3-2x^2+x+3)$$
$$(x^2+5x-2)(x^2+4x-4)(x^3+4x^2-4x+2)$$
$$(x^2+3x-3)(x^2+4x-3)(x^3+5x+2)$$
$$(x^2+3x-5)(x^2+2x+4)(x^3-4x^2-5)$$
$$(x^2-4x+1)(x^2-4x+1)(x^3+3x^2-x+2)$$
$$(x^2+5x-3)(x^2-3x+4)(x^3-4x^2-2x-4)$$
$$(x^2-5x-4)(x^2-x+3)(x^3+2x^2-2x+4)$$
$$(x^2+3x+4)(x^2-5x-2)(x^3+3x^2+2x-5)$$
$$(x^2+4x-1)(x^2+2x-2)(x^3-x^2-3x-5)$$
$$(x^2+5x+2)(x^2-5x+2)(x^3+4x^2-1)$$
$$(x^2-5)(x^2+4x+1)(x^3+x+4)$$
$$(x^2-2x-4)(x^2-3x+3)(x^3+x^2-2x+3)$$
$$(x^2-3x-3)(x^2-2x+4)(x^3-2x^2+5x+3)$$
$$(x^2+x+1)(x^2-5x-3)(x^3-x^2+2x-5)$$
$$(x^2-5x+3)(x^2-5x+5)(x^3+5x^2+x+1)$$
$$(x^2+x+5)(x^2-4x-3)(x^3+5x^2+2x+5)$$
$$(x^2+x+5)(x^2+5x+3)(x^3-5x^2-5x+2)$$
$$(x^2+5x+2)(x^2-3)(x^3-4x^2+x-1)$$
$$(x^2-3x+1)(x^2-3x-1)(x^3+x^2-2x-5)$$
$$(x^2-3x-1)(x^2+4x+2)(x^3-3x^2-x+4)$$
$$(x^2+x-5)(x^2+3x-3)(x^3-3x^2+3)$$
$$(x^2-5x-4)(x^2-x+5)(x^3+x^2+4x+5)$$
$$(x^2-5x-2)(x^2-4x+2)(x^3+4x^2-2x+4)$$
$$(x^2-2x+4)(x^2+x-5)(x^3+2x^2+3x+5)$$
$$(x^2-x+3)(x^2-5x-5)(x^3-2x-2)$$

9.2 일계수 칠차식 2형

$$(x^3-2x^2-3x-5)(x^4-3x^3+5x-5)$$
$$(x^3+4x^2+1)(x^4-2x^3-2x^2+3x-4)$$
$$(x^3+5x^2-2x-1)(x^4+4x^3+3x^2+5x+4)$$
$$(x^3-4x^2+2x-1)(x^4+3x^3+3x^2-5x+2)$$
$$(x^3+2x^2-4x-1)(x^4+3x^3+3x^2+4x-2)$$
$$(x^3-3x-4)(x^4-2x^3+5x^2-5)$$
$$(x^3+4x^2+2x+5)(x^4+2x^3-3x^2-3x+4)$$
$$(x^3+4x+1)(x^4+5x^3-5x^2+3x+3)$$
$$(x^3-5x^2-3x-1)(x^4-4x^3-4x^2-3)$$
$$(x^3-4x^2+2)(x^4+x^3-x^2-2x-5)$$
$$(x^3+4x^2-5x+1)(x^4-4x^3+3x^2-4x+2)$$
$$(x^3-5x^2+3x-1)(x^4+5x^2+x+4)$$
$$(x^3-2x^2+x-5)(x^4+4x^3-2x^2-3x+4)$$
$$(x^3-4x^2-3)(x^4-3x^3+3x^2+2x-4)$$
$$(x^3-5x^2-5x+5)(x^4+5x^3-x^2+2x-3)$$
$$(x^3+x^2+2x-3)(x^4-4x^3+5)$$
$$(x^3+2x^2+3x+5)(x^4+5x^3-5x^2+3)$$
$$(x^3-5x^2-2)(x^4-4x^3-x^2+4x-1)$$
$$(x^3-2x^2+x-4)(x^4-5x^3+4x^2-2x-1)$$
$$(x^3-4x^2+x+5)(x^4-2x^3-x^2-3x+2)$$
$$(x^3+x^2-2x+4)(x^4+5x^3+2x^2-4)$$
$$(x^3-4x^2-5x+4)(x^4+2x^3-2x^2-5x-3)$$
$$(x^3-2x^2-x+4)(x^4+x^3-3x^2-5x-3)$$
$$(x^3-x^2+3x-4)(x^4-2x^3-x^2-2x+3)$$
$$(x^3-2x^2-5x-1)(x^4-x^3+x^2+5)$$
$$(x^3+4x^2+5x-5)(x^4-3x^3-2x^2-5x+1)$$
$$(x^3+4x^2-2x+2)(x^4+4x^3+3x^2+x-5)$$
$$(x^3-2x^2+4x-2)(x^4+3x^3+x^2+3x-5)$$
$$(x^3-x-1)(x^4-x^3+4x^2+5)$$
$$(x^3+4x^2+3)(x^4-2x^3-4x^2-4x-4)$$
$$(x^3+x^2-5x+5)(x^4+x^3+2x^2-4x+1)$$
$$(x^3+3x^2+2x-4)(x^4-2x^3-x^2+x-3)$$
$$(x^3+5x^2-1)(x^4-x^3-4x^2+x+2)$$
$$(x^3+5x^2-x+5)(x^4-5x^3+2x^2-2x-3)$$
$$(x^3-2x^2+5x-5)(x^4-x^3+5x^2-4x+4)$$
$$(x^3-2x^2+x+2)(x^4+3x^2+5x+3)$$

$(x^3 - 4x^2 + 3x - 2)(x^4 - 4x^3 + 5x^2 + 2)$
$(x^3 - 4x^2 - 2x - 5)(x^4 + x + 4)$
$(x^3 + 3x^2 - 5)(x^4 - 2x^3 + 5x^2 - x - 1)$
$(x^3 - 4x^2 - 4)(x^4 + 3x^3 - 4x^2 + 2x + 2)$
$(x^3 + x^2 - 3)(x^4 + 5x^3 - x^2 + x + 4)$
$(x^3 - 5x + 1)(x^4 + 4x^2 - 4x + 4)$
$(x^3 - 5x^2 - 2x - 1)(x^4 - 3x^3 + 2x^2 - x - 2)$
$(x^3 - 3x^2 - 3x + 4)(x^4 + 2x^3 - 2x^2 + 4x + 4)$
$(x^3 + 3x - 2)(x^4 - x^3 - 3x^2 + x - 2)$
$(x^3 + x^2 - x + 1)(x^4 + 5x^3 + x^2 + 5x - 5)$
$(x^3 + 2)(x^4 - 5x^3 + x^2 - 3x + 3)$
$(x^3 - 3x^2 - 2x - 2)(x^4 - 4x^2 - 4x + 1)$
$(x^3 - 4x^2 - 4x - 2)(x^4 - 2x^3 + 2x^2 + 3x + 3)$
$(x^3 - x + 1)(x^4 - 3x^3 - x^2 - 4)$
$(x^3 + x^2 + 1)(x^4 + 4x^3 - 3x + 4)$
$(x^3 + 5x^2 - 4x + 5)(x^4 - 3x^3 + 2x^2 - 5x - 4)$
$(x^3 - 4x^2 - 5x + 1)(x^4 + 4x^3 + 3x^2 + 3x - 5)$
$(x^3 + 5x^2 + 3x - 3)(x^4 - x^3 - x^2 - 4x - 3)$
$(x^3 - 2x^2 + 4x + 3)(x^4 + 2x^3 - 5x^2 - 2x + 5)$
$(x^3 - 3x^2 + 3)(x^4 + x^3 + 3x^2 - 5x + 5)$
$(x^3 - x + 2)(x^4 - 4x^3 - 4x^2 - x + 4)$
$(x^3 - 5x^2 - 5x - 3)(x^4 + 2x^3 + 2x^2 - 3x + 5)$
$(x^3 - 4x^2 - x + 2)(x^4 + 5x^3 - 5x^2 - 4x - 5)$
$(x^3 + 5x^2 - 4x - 3)(x^4 + 4x^3 - 2x^2 - 4)$
$(x^3 - 3x + 1)(x^4 - 5x^3 - 3x^2 - x + 2)$
$(x^3 - 3x^2 + 5x + 5)(x^4 - x^3 - 2x^2 + 5x - 4)$
$(x^3 - 2x^2 - 2)(x^4 + x^3 - 5x^2 - x - 4)$
$(x^3 + 4x^2 + 3x - 5)(x^4 - 5x^3 - 2x^2 - x + 5)$
$(x^3 - 4x^2 + 3x - 5)(x^4 + x^3 - 3x^2 + 4x + 5)$
$(x^3 + 4x + 3)(x^4 - x^3 - 5x^2 + 3x + 4)$
$(x^3 + 5x^2 - x - 2)(x^4 - 4x^3 + 2x^2 + 5x + 5)$
$(x^3 - x - 3)(x^4 - 2x^3 + 3x^2 + 4x - 3)$
$(x^3 + x^2 + 2)(x^4 + 3x^3 + 4x^2 + 3x + 4)$
$(x^3 - 5x^2 + 4x - 2)(x^4 + 4x^3 - 4x^2 - 4x - 3)$
$(x^3 - 4x^2 + 3x - 1)(x^4 - 5x^3 + 4x^2 + 3x - 4)$
$(x^3 + 2x^2 + 4x - 4)(x^4 - x^3 - x^2 + 4x + 1)$
$(x^3 + 4x^2 - 5x + 2)(x^4 + 5x^3 + 2x^2 - 3x - 3)$
$(x^3 + 5x^2 - 3)(x^4 + 4x^3 + x^2 - 4x - 1)$
$(x^3 + 4x^2 + 5)(x^4 - 3x^3 + 5x + 4)$
$(x^3 + 3x^2 + x - 4)(x^4 - 5x^3 + 5x^2 + 5)$
$(x^3 - 5x^2 - x - 1)(x^4 + 4x^3 + 5x^2 - 2x + 1)$
$(x^3 + 4x^2 - 5x + 3)(x^4 - 4x^2 - 2x + 3)$

$(x^3 + 4x^2 - x + 1)(x^4 + 5x^2 + 5x + 1)$
$(x^3 - 5x^2 + 2x + 1)(x^4 + 3x^3 - 5x^2 - 5x + 5)$
$(x^3 + 3x^2 - 3)(x^4 + x^3 + 5x^2 + x + 3)$
$(x^3 + 5x^2 - 3x - 2)(x^4 - x^3 - 3x^2 + x - 2)$
$(x^3 - x^2 + 3x + 1)(x^4 - 4x^3 + 5x^2 - 3x - 5)$
$(x^3 + 4x^2 - 4x - 3)(x^4 + 3x^2 - 5x - 3)$
$(x^3 + 4x^2 - 2x + 4)(x^4 + 4x^3 - 2x^2 + x + 5)$
$(x^3 - x - 2)(x^4 - 3x^3 + x^2 + 5x + 1)$
$(x^3 + 4x^2 - 2x - 2)(x^4 + 2x - 2)$
$(x^3 - 4x^2 - 2x - 3)(x^4 + 4x^3 + 2x^2 + 5x + 4)$
$(x^3 - 5x^2 + x + 2)(x^4 - 4x + 4)$
$(x^3 + 2x^2 + 4x + 2)(x^4 - x^3 - 4x^2 - 3x - 3)$
$(x^3 - 5x + 5)(x^4 + 3x^3 + 5x^2 + 2x + 2)$
$(x^3 - 5x^2 + 2x + 5)(x^4 + 2x^3 + 4x^2 + 3)$
$(x^3 - 3x - 5)(x^4 + x^3 - x^2 + 4)$
$(x^3 + x^2 - x + 1)(x^4 + 2x^3 - x^2 - 2x - 4)$
$(x^3 - x^2 - 4x + 3)(x^4 + 4x^3 - 2x^2 + 2)$
$(x^3 - 5x^2 - x + 4)(x^4 + 4x^3 + x - 4)$
$(x^3 - 5x^2 + 2x - 1)(x^4 + 3x^3 + 2x - 4)$
$(x^3 + 5x^2 - 5x - 3)(x^4 + 4x^2 + 4x + 2)$
$(x^3 - 3x - 1)(x^4 - x^3 + 4x^2 - 5x - 5)$
$(x^3 + 4x^2 - x - 3)(x^4 + x^2 - 3x - 2)$
$(x^3 - x^2 - 5x + 1)(x^4 - 2x^3 + x^2 - 3x - 3)$
$(x^3 - 5x^2 + 4x - 5)(x^4 - x^3 - x - 1)$
$(x^3 - 5x^2 - x - 1)(x^4 - x^2 - x + 3)$
$(x^3 - x + 1)(x^4 - x^3 - 3x^2 - 2x - 5)$
$(x^3 - 4x^2 + 1)(x^4 - 5x^3 + 3x^2 + 3x - 5)$
$(x^3 - x^2 - x - 4)(x^4 - 4x^2 - 4x - 2)$
$(x^3 + 5x^2 - 2x + 5)(x^4 - 4x^3 + 4x^2 + 3x - 3)$
$(x^3 + 3x + 1)(x^4 - 2x^3 + 2x^2 - x - 2)$
$(x^3 + 3x^2 + 5x - 1)(x^4 - 5x^3 - 2x^2 + 5x + 2)$
$(x^3 - x - 2)(x^4 + 4x^3 + 3x^2 + 5x + 4)$
$(x^3 + 2x^2 + 5x - 2)(x^4 - 3x^3 + 2x^2 + 3x + 2)$
$(x^3 + x^2 - 5x + 4)(x^4 + 5x^3 + 4x^2 + 4x - 3)$
$(x^3 + 2x^2 + 5x - 1)(x^4 - 5x^3 - 2x^2 + 4x + 4)$
$(x^3 + 2x^2 + 5x - 2)(x^4 - 5x^3 - 3x^2 - 2x + 5)$
$(x^3 - 4x + 4)(x^4 - x^3 + 2x^2 + 2x - 5)$
$(x^3 + 3x^2 - x + 4)(x^4 - x^3 + 5x^2 - 2x - 1)$
$(x^3 + 3x^2 + x + 1)(x^4 + 2x^3 - x^2 - 3x - 4)$
$(x^3 + 3x^2 + 2x - 2)(x^4 - 4x^3 + 5x^2 + 3x - 3)$
$(x^3 - x^2 - x + 2)(x^4 - 5x^3 + 5x^2 - 3x + 5)$
$(x^3 + 2x - 5)(x^4 + x^3 + x^2 + 2x - 3)$

9.3 일계수 칠차식 3형

$(x^2 - x - 4)(x^5 - 5x^4 + 5x^3 + 4x - 3)$
$(x^2 + 5x - 1)(x^5 + 4x^4 - 3x^3 - 2x^2 + 2x + 2)$

$(x^2 - 2x - 4)(x^5 + 5x^4 - 2x^3 - 5x^2 - 5x - 2)$
$(x^2 - 5x + 1)(x^5 - 2x^4 - 2x^3 + x^2 - x - 5)$

$(x^2-3x+3)(x^5+x^4-2x^3-5x^2-2x+2)$

$(x^2-2x+5)(x^5+5x^4-x^3-4x^2+x-5)$

$(x^2-3x+1)(x^5-2x^4+x^2+5x+3)$

$(x^2+2x+2)(x^5-x^4-2x^3-3x^2-2x-3)$

$(x^2-2x-1)(x^5-3x^4-x^3+4x^2-4x-4)$

$(x^2+1)(x^5+3x^4-5x^3-5x^2-4x+5)$

$(x^2+x+5)(x^5+3x^4-x^3-5x^2-5x-5)$

$(x^2-4x-2)(x^5+4x^3-5x^2-3x+1)$

$(x^2-2x-1)(x^5+x^4+5x^3+x^2+2x+4)$

$(x^2+5x+2)(x^5+x^3-3x^2+x+2)$

$(x^2-x-5)(x^5+5x^4+4x^3-2x^2+5x-4)$

$(x^2+5)(x^5+5x^4+4x^3-x^2+4)$

$(x^2-4x-3)(x^5-x^4+3x^3-3x^2-5x-1)$

$(x^2+3x-5)(x^5-2x^4+5x^3-5x^2-x+4)$

$(x^2+3x-5)(x^5-4x^4-2x^3+4x^2+4x+4)$

$(x^2-x-5)(x^5-3x^4-4x^3+x^2-x-1)$

$(x^2+5)(x^5-5x^4+x^3-2x^2+2x+1)$

$(x^2+4x+1)(x^5+x^4-3x^3-2x^2-2x+1)$

$(x^2+4x-3)(x^5+2x^4+x^3+3x^2+5x+4)$

$(x^2+3x+3)(x^5-4x^4+x^3-3x-5)$

$(x^2-5)(x^5+4x^4+2x^3-5x-3)$

$(x^2-x+4)(x^5+5x^4-3x^2-5x+1)$

$(x^2+1)(x^5+5x^4+4x^3+x^2-4x-1)$

$(x^2-4x+2)(x^5-x^2+5x+4)$

$(x^2-5x+3)(x^5-x^4+5x^3-2x^2+2x+1)$

$(x^2+x+5)(x^5-2x^4-4x^3-x^2-5x+2)$

$(x^2+2x-5)(x^5-5x^4-x^3-x^2+4x-1)$

$(x^2+5x+3)(x^5+4x^4-2x^3-3x^2-1)$

$(x^2+3x+4)(x^5+x^4-x^3-x^2-2x+5)$

$(x^2-2x+5)(x^5+4x^4+5x^3+5x^2-x-2)$

$(x^2+5x+2)(x^5-2x^4+x^2-5x+3)$

$(x^2+5x+5)(x^5+4x^4-5x^3+3x^2-x-4)$

$(x^2-5x+1)(x^5+2x^4-2x^3-3x^2+4x-1)$

$(x^2-3)(x^5-4x^4-3x^3-5x^2-x-4)$

$(x^2-2x+4)(x^5-4x^4+3x^3+x^2+4x+5)$

$(x^2-3x-1)(x^5+x^4+x^3+2x^2+4x+2)$

$(x^2+4x+5)(x^5-2x^4+x+2)$

$(x^2-x+3)(x^5-2x^4+5x^3-3x^2+x+3)$

$(x^2-2x-4)(x^5-2x^4-5x^3+x^2-2x+1)$

$(x^2+3)(x^5-3x^4+2x^3+4x^2-3x+3)$

$(x^2-5x+5)(x^5+4x^4-3x^3-4x^2+5x+4)$

$(x^2+5x-3)(x^5+4x^4-2x^3+4x-4)$

$(x^2+5x+5)(x^5-2x^4-5x^3+4x^2-4x-4)$

$(x^2+x-4)(x^5+2x^4+4x^3+3x^2-4x-5)$

$(x^2+5x-4)(x^5+4x^4-2x^3+4x^2-4x+3)$

$(x^2+x+1)(x^5+4x^4-x^3+2x^2-3x-4)$

$(x^2-4x-1)(x^5-3x^4+x^3+2x^2-3x+4)$

$(x^2+4x-1)(x^5+5x^4+x^3+2x+3)$

$(x^2+3x+5)(x^5+5x^4+4x^3+3x^2+x-4)$

$(x^2+x-3)(x^5-x^3+5x^2+4x+1)$

$(x^2+2x-1)(x^5-3x^4-x^2-x+5)$

$(x^2+3x-2)(x^5+2x^4-4x^3-4x^2-3x+4)$

$(x^2+x-5)(x^5+3x^4+5x^3+5x^2+5x+1)$

$(x^2-2x-5)(x^5-2x^4-2x^3+2x^2-x-5)$

$(x^2+2x+4)(x^5+3x^4-5x^3-2x^2-4x+4)$

$(x^2+x+5)(x^5-5x^4-x^3-4x^2-4x-3)$

$(x^2-5x+5)(x^5-2x^4+4x^3+2x^2-4)$

$(x^2-3x-1)(x^5-4x^4-2x^3+x^2+4x+1)$

$(x^2+2x-1)(x^5-4x^4+x^3+3x^2-x-1)$

$(x^2-x-3)(x^5+x^4+5x^3-3x+3)$

$(x^2+3x-3)(x^5-3x^4-5x^2-2x-2)$

$(x^2+x-1)(x^5+5x^3-5x^2+4x+5)$

$(x^2+3x+1)(x^5+5x^4-x^3-4x^2+3x+3)$

$(x^2+3x+3)(x^5-3x^4+4x^3+4x^2+2x-4)$

$(x^2-3x-2)(x^5-3x^4+5x^3+1)$

$(x^2-4x+1)(x^5+5x^4-2x^3-x^2-4x+4)$

$(x^2+5x-3)(x^5-3x^4-3x^3-x^2-4x-1)$

$(x^2+x-3)(x^5-3x^4-5x^3+x^2+4)$

$(x^2-5x-2)(x^5+3x^4+x^3+4x^2+2x-5)$

$(x^2-2x-5)(x^5+5x^4+4x^3-4x^2+4x+4)$

$(x^2-3x+4)(x^5+4x^4-5x^3+4x+4)$

$(x^2-2x-4)(x^5+4x^4-x^3-x^2+2x+5)$

$(x^2+3)(x^5-x^3+5x^2+4x-4)$

$(x^2-4x-4)(x^5-x^4-x^3-x^2+x-5)$

$(x^2+5)(x^5-x^4-2x^3+x-3)$

$(x^2-2x-4)(x^5-3x^4-3x^3+2x^2-3x-5)$

$(x^2+x+1)(x^5+2x^4+2x^3-5x^2+5x-2)$

$(x^2+3x-2)(x^5-5x^4+3x^3-x^2-x+5)$

$(x^2-5x-2)(x^5+4x^4-x^3-4x^2+4x-3)$

$(x^2-5x-4)(x^5+3x^4+4x^3+4x^2+3x+3)$

$(x^2+4x-3)(x^5-2x^4-5x^3-4x^2-3x-5)$

$(x^2+4x-3)(x^5+x^4+x^3-4x^2-3x+5)$

$(x^2+x-1)(x^5-4x^4-x^3+2x^2-2x-1)$

$(x^2+3x-5)(x^5+4x^4+5x^3-4x^2+4x+3)$

$(x^2+x+3)(x^5-3x^3+x^2-5x+1)$

$(x^2+3x-1)(x^5+4x^4-x^3-4x^2-5x-2)$

$(x^2-x-4)(x^5-3x^4-3x^3+3x^2-5x+2)$

$(x^2-2x-2)(x^5-5x^4-5x^2+3x+1)$

$(x^2+x-1)(x^5-x^4-2x^3-4x^2+5x+4)$

$(x^2+3)(x^5-4x^4+2x^3+4x^2-x+1)$

$(x^2-2x+4)(x^5+5x^4+3x^3-x^2+3x+2)$

$(x^2-3x+3)(x^5-x^4+5x^3-x^2+2x+1)$

$(x^2-5x+3)(x^5+3x^4-4x^3+4x^2-5)$

$(x^2-5x+2)(x^5-3x^4-5x^3+x^2+3x+5)$

$$(x^2+x+1)(x^5+4x^4-3x^3+5x+1)$$
$$(x^2-3x+1)(x^5-4x^4+2x^3-5)$$
$$(x^2+4x-1)(x^5+3x^4-5x^3-x^2-5x-1)$$
$$(x^2-4x+1)(x^5-5x^4+5x^3+x^2+x+1)$$
$$(x^2-2x-1)(x^5-4x^4-3x^3+4x+5)$$
$$(x^2+x-3)(x^5-2x^4-x^3-3x^2+2)$$
$$(x^2+x+1)(x^5+2x^4+2x^3+3x^2+2x-4)$$
$$(x^2-3x-5)(x^5+5x^4+5x^3+5x^2+3x-2)$$
$$(x^2+3x+4)(x^5-2x^4-4x^3+x^2-x+1)$$
$$(x^2-3x+3)(x^5+4x^4+2x^3-x^2+4x+1)$$
$$(x^2+4x-3)(x^5+5x^4+5x^3-x^2+3x-1)$$
$$(x^2-2x-5)(x^5+4x^4-x^3-4x^2+x-2)$$
$$(x^2+4x+1)(x^5-4x^4+3x^3+x^2-5x-4)$$
$$(x^2-5x-1)(x^5+2x^4+x^3-4x+2)$$
$$(x^2-4x-3)(x^5+x^4+x^3+2x^2+x+4)$$
$$(x^2-x+4)(x^5+2x^4+2x^3-3x^2-4x-3)$$
$$(x^2-5x+5)(x^5+2x^4+3x^3+5x^2+5)$$
$$(x^2-5x+1)(x^5+2x^4+x^2-3x+3)$$
$$(x^2+x-5)(x^5+3x^4+3x^3+5x^2-5x-5)$$
$$(x^2-2x-5)(x^5+3x^4-x^2-4x-2)$$
$$(x^2+2x-1)(x^5+3x^4-x^3+2x^2-2x-4)$$
$$(x^2-3x+5)(x^5+3x^4+2x^3+5x^2+3x+5)$$

9.4 일계수가 아닌 칠차식 1형

$$(3x^2+5x+5)(x^2-5x+2)(4x^3+5x^2-4x-1)$$
$$(5x^2+3x+4)(x^2-2x+3)(5x^3-2x^2+3x-5)$$
$$(5x^2-2x+1)(4x^2+3x+4)(4x^3+5x^2-4x+2)$$
$$(4x^2-5)(3x^2+2x-3)(x^3-3x^2+x-1)$$
$$(x^2+x-5)(x^2-2x+3)(4x^3-x^2-5x-2)$$
$$(x^2-x+1)(5x^2-4x-2)(5x^3-2x^2-5x-3)$$
$$(4x^2+5x+2)(2x^2+x+5)(4x^3+2x^2-5x+1)$$
$$(5x^2+3x-3)(2x^2-3)(5x^3-2x^2+4x+3)$$
$$(3x^2-2x-4)(5x^2-4x-3)(4x^3-3x^2-5x-2)$$
$$(5x^2+2x-1)(2x^2+3x-4)(x^3+3x^2-x+3)$$
$$(4x^2-4x-5)(x^2+3x-1)(3x^3+4x^2-3x-5)$$
$$(5x^2-3x+2)(x^2+5x+5)(3x^3+3x^2-5x-2)$$
$$(3x^2-4x+4)(x^2-5x-1)(x^3-3x^2-3x-5)$$
$$(x^2-2x+3)(5x^2-x-1)(3x^3+x^2-3x+5)$$
$$(2x^2+2x+1)(x^2-x-1)(3x^3+3x^2-2x+1)$$
$$(5x^2-5x+2)(2x^2-1)(4x^3+4x^2+4x+5)$$
$$(5x^2-x+3)(2x^2+5x+5)(4x^3+2x^2-3x-5)$$
$$(2x^2+4x+1)(4x^2+5x+3)(3x^3+x^2-x+5)$$
$$(x^2-2)(4x^2-x+2)(4x^3+5x^2-2x-1)$$
$$(5x^2-4x+2)(3x^2-2x+4)(3x^3-2x+2)$$
$$(2x^2+4x-3)(x^2-x-1)(5x^3+4x^2-3x-4)$$
$$(2x^2-2x+5)(x^2+4x+1)(5x^3-2x^2-x+5)$$
$$(x^2+5x+1)(x^2-5x-2)(5x^3+x^2-x-1)$$
$$(2x^2-2x-1)(x^2+2x+5)(3x^3+3x^2+4x-3)$$
$$(2x^2-1)(5x^2+x+4)(5x^3-x^2-3x+5)$$
$$(x^2+2x-2)(5x^2+3x+2)(4x^3-3x^2+1)$$
$$(3x^2+5x-3)(5x^2-4x-3)(4x^3+5x-5)$$
$$(3x^2+3x+2)(3x^2-4x-5)(4x^3-3x^2-4)$$
$$(x^2-x-3)(5x^2+4x-3)(2x^3+4x^2-2x-3)$$
$$(3x^2-4x-5)(5x^2-4x+2)(3x^3+3x-5)$$
$$(5x^2-2x+4)(2x^2+3x+3)(3x^3+x^2+5x-3)$$
$$(2x^2+4x-5)(4x^2-x+5)(4x^3-5x^2+5x+3)$$
$$(5x^2+3x+4)(4x^2+3x-3)(4x^3+3x^2-4x-2)$$
$$(3x^2-x-5)(x^2-2x-1)(5x^3-5x^2-3x+5)$$
$$(x^2-3x+3)(x^2+5x+2)(2x^3+2x^2-3x-5)$$
$$(x^2-x-4)(4x^2-3x-5)(2x^3-4x^2+x-3)$$
$$(3x^2+4x+4)(2x^2+x-5)(5x^3-x^2-5x-3)$$
$$(2x^2-5)(4x^2-3x+5)(4x^3+5x^2-4x-1)$$
$$(5x^2-5x-2)(x^2+4)(4x^3-x^2+2)$$
$$(4x^2-3x-2)(3x^2-x+5)(2x^3-4x^2-3x-5)$$
$$(5x^2+2x+5)(3x^2+1)(x^3-4x^2-4x+3)$$
$$(x^2-x-5)(4x^2+5)(4x^3+4x^2-x+1)$$
$$(5x^2-x-2)(5x^2-1)(4x^3-4x^2-5x+1)$$
$$(3x^2-1)(5x^2+5x+1)(4x^3-4x^2+5x-4)$$
$$(5x^2+5x+2)(5x^2+2x+2)(x^3-3x^2+2x+4)$$
$$(2x^2-4x-1)(2x^2-3x+2)(2x^3-4x^2+3)$$
$$(x^2-3x+1)(2x^2-4x+3)(x^3-5x^2-4x-5)$$
$$(5x^2-5x+3)(x^2-x+5)(4x^3+3x+5)$$
$$(4x^2+5x-2)(2x^2+4x+5)(x^3-3x^2+3x+4)$$
$$(4x^2-5x-2)(x^2+5x+1)(5x^3-3x^2+x-1)$$
$$(5x^2-4x+3)(5x^2+4x-4)(5x^3-x^2-5x-3)$$
$$(5x^2+3x+4)(4x^2+3)(2x^3+5x^2-3x+5)$$
$$(4x^2-x-4)(2x^2+5x-5)(2x^3-2x-1)$$
$$(5x^2-1)(3x^2+3x-4)(4x^3-3x^2+3x+3)$$
$$(5x^2+2x+2)(4x^2-2x+5)(5x^3-x^2+3x+3)$$
$$(x^2-x-1)(2x^2+3)(3x^3-4x^2-x-5)$$
$$(4x^2+1)(x^2-x-3)(5x^3+4x^2+2x+1)$$
$$(x^2-2x-2)(2x^2-5)(5x^3+5x^2+3)$$
$$(x^2+2x+2)(3x^2+x+5)(3x^3+2x^2-2x+2)$$
$$(2x^2-5)(x^2-3x+1)(3x^3-4x^2+5x+3)$$
$$(4x^2+3x+1)(3x^2+4x+2)(5x^3+2x^2+3x+5)$$
$$(2x^2-3x-4)(4x^2+1)(4x^3-3x^2-5x-5)$$
$$(x^2+x-1)(2x^2+3x+4)(2x^3-3x^2+2x+1)$$
$$(3x^2+x-5)(x^2+4x-2)(5x^3+x^2+x-3)$$
$$(4x^2-3)(3x^2+5x-1)(5x^3+4x^2+4x+3)$$
$$(5x^2-5x-2)(2x^2-5x-4)(5x^3-x^2-x-4)$$

$$(2x^2+3)(x^2+5x-3)(3x^3+3x^2-3x+2)$$
$$(4x^2+5)(x^2+4x+5)(5x^3-5x^2+1)$$
$$(5x^2+5x+4)(2x^2+x-4)(5x^3-4x^2+3x-3)$$
$$(2x^2-x-4)(x^2-3x-1)(4x^3-x^2+4)$$
$$(x^2+4x-3)(5x^2+3x-5)(2x^3-5x^2-2x+4)$$
$$(x^2+x+3)(x^2-x-3)(5x^3-3x^2-x-2)$$
$$(2x^2+4x+3)(3x^2-3x-2)(2x^3+2x^2+1)$$
$$(5x^2+2x-1)(x^2+2x-4)(4x^3-4x^2+5x-3)$$
$$(3x^2+3x+1)(x^2-x-1)(2x^3-4x^2-5x+3)$$
$$(x^2-x+4)(3x^2+x+3)(4x^3-5x^2+5x+3)$$
$$(5x^2-4x-4)(x^2-3x+1)(2x^3+5x^2+2)$$
$$(x^2-2x-1)(2x^2-x-2)(4x^3+2x^2+4x+5)$$
$$(3x^2+x+4)(2x^2+1)(4x^3-3x^2+5x-1)$$
$$(5x^2+2)(x^2-x-5)(2x^3-2x^2-3x-3)$$
$$(5x^2-5x-4)(2x^2-3x+3)(x^3+4x^2-2x+2)$$
$$(5x^2+3x-1)(4x^2-2x+1)(5x^3+x^2-5x+2)$$
$$(x^2+3)(x^2+2)(3x^3-4x^2-4x-5)$$
$$(x^2-2x+2)(4x^2+2x+5)(4x^3+x^2+3x+4)$$
$$(4x^2+4x+5)(x^2+x+3)(4x^3+4x^2+2x-3)$$
$$(x^2+2x-1)(3x^2-4x+4)(x^3+2x-2)$$
$$(x^2+2x+3)(3x^2+4x-1)(4x^3-5x^2+2x+3)$$
$$(5x^2+5x-4)(5x^2-4)(5x^3+1)$$
$$(x^2+3x-2)(2x^2-x+2)(2x^3-x^2-5x-3)$$
$$(5x^2-2x+4)(4x^2+3x+4)(5x^3-2x^2+x+5)$$
$$(x^2-x-4)(x^2+5x+5)(2x^3+2x^2+3x-1)$$
$$(5x^2+5x+2)(3x^2-2x-4)(3x^3-2x^2-x-2)$$
$$(x^2-x+2)(4x^2-3x+1)(x^3-5x^2-2x-1)$$
$$(3x^2+2x+3)(5x^2-2x-4)(2x^3-3x^2+3)$$
$$(2x^2+3x-1)(5x^2+5x+3)(3x^3+x^2+2x+1)$$
$$(x^2+x+5)(5x^2+4x+2)(2x^3+4x^2+3)$$
$$(x^2+5x-4)(5x^2-4)(3x^3-2x^2-5x-3)$$
$$(4x^2-4x-5)(x^2+4x-1)(5x^3+5x+1)$$
$$(x^2+3x-1)(4x^2-3x-5)(5x^3-4x^2-4x-5)$$
$$(3x^2+3x-2)(5x^2+3x+2)(3x^3-4x^2+2x-4)$$
$$(2x^2-x-5)(3x^2-x+3)(x^3-4x^2+3x-4)$$
$$(3x^2-2x-3)(3x^2+5x+4)(3x^3+x^2+5x+3)$$
$$(2x^2+2x-3)(5x^2-4x+2)(3x^3-5x^2-4x+5)$$
$$(3x^2+3x-4)(2x^2-3x+3)(4x^3+5x^2+4x+1)$$
$$(4x^2+2x-1)(x^2-2x+2)(2x^3+3x^2+5x-1)$$
$$(3x^2+x-5)(2x^2+x+1)(2x^3+x^2-5x-2)$$
$$(3x^2-4x+5)(4x^2+3x+1)(3x^3+x^2-2x+3)$$
$$(4x^2+4x-5)(x^2+x+5)(x^3+2x^2+5x+5)$$
$$(2x^2+2x-1)(5x^2-3x+5)(x^3-3x^2+4x-5)$$
$$(5x^2+x-1)(3x^2-4x-1)(5x^3-3x^2+4x-1)$$
$$(5x^2+2x-5)(3x^2+4x-2)(3x^3-5x^2-5x+2)$$
$$(3x^2+2x-4)(x^2-4x-4)(3x^3-5x^2+3x+5)$$
$$(3x^2+3x+1)(5x^2-4x+2)(3x^3+x^2+2x-2)$$
$$(5x^2-3x-5)(x^2+4x-1)(2x^3+3x^2+5)$$
$$(4x^2-2x-1)(5x^2+4x+1)(4x^3-3x^2-4x+4)$$
$$(2x^2+x-5)(4x^2-3x-5)(4x^3+3x^2-2x-4)$$
$$(2x^2-4x+5)(5x^2-3x-1)(x^3-2x^2+3x-5)$$
$$(3x^2+4x-5)(5x^2+3x+1)(x^3+3x^2+1)$$
$$(5x^2+2x-5)(5x^2-5x+1)(2x^3+x^2+x+5)$$
$$(5x^2+1)(x^2+3x+3)(3x^3+4x^2-5x+2)$$

9.5 일계수가 아닌 칠차식 2형

$$(5x^3-2x^2+5x+4)(x^4-3x^3+5x^2-x+1)$$
$$(2x^3+4x^2-5x+2)(x^4-2x^3-5x^2+x-5)$$
$$(4x^3-3x^2+2x-1)(5x^4+4x^3+2x^2-2x+5)$$
$$(5x^3+2x^2+2x+4)(x^4-x^3+3x^2+5x+4)$$
$$(2x^3-2x^2-3x-3)(3x^4+x^3+3x^2-3x+2)$$
$$(5x^3-3x^2+5x+4)(4x^4+3x^3+x^2+5x+4)$$
$$(4x^3-4x^2+5x-1)(3x^4-x^3-4x^2+x+3)$$
$$(3x^3+4x^2-x-5)(x^4-5x^3+4x^2-5x-3)$$
$$(2x^3-2x^2-1)(5x^4+x^3-2x^2+x+1)$$
$$(5x^3-5x^2-4x+1)(5x^4+2x^2+1)$$
$$(2x^3+x^2-x-3)(4x^4+5x^3-2x^2+x+5)$$
$$(x^3+2x-4)(3x^4+3x^3-3x^2+2x-4)$$
$$(4x^3+3x^2+x-1)(2x^4+5x^3+5x^2+3x+2)$$
$$(5x^3+x^2+3x+5)(x^4-5x^3-4x^2-5x-5)$$
$$(2x^3-x^2+3x+4)(5x^4+3x^3-5x^2-2x-2)$$
$$(4x^3+x^2-4x+5)(5x^4-3x^3+5x^2+x-4)$$
$$(x^3+x^2-x+5)(4x^4+3x^3-x^2-2x+5)$$
$$(2x^3-4x^2+3x+3)(x^4+5x^3-4x+4)$$
$$(2x^3+3x^2-3x+1)(4x^4-2x^3+4x^2+5x-1)$$
$$(5x^3+3x-4)(4x^4-2x^3+2x^2+x+3)$$
$$(3x^3+4x^2-5x-3)(5x^4+4x^3-2x^2+2x+2)$$
$$(4x^3+3x-3)(5x^4+4x^3+3x^2+4x-4)$$
$$(x^3-x^2+3x-2)(4x^4+x^3-3x^2+3x-3)$$
$$(5x^3-4x^2-3x+1)(x^4+4x^3-5x-4)$$
$$(3x^3+5x^2+x+1)(4x^4+5x^3+x^2-3x-1)$$
$$(2x^3-4x^2-3x-4)(x^4-x^3-2x^2-x-4)$$
$$(2x^3+3x+3)(4x^4-3x^3+5x^2+3x-1)$$
$$(4x^3-4x^2-4x+5)(3x^4-3x^3+x^2-x+2)$$
$$(3x^3-2x^2+5x-5)(5x^4-5x^3+5x^2-3x-5)$$
$$(4x^3-5x^2+x-1)(3x^4+2x^2+2x-5)$$
$$(4x^3+x^2+5x+3)(5x^4-2x^3+3x^2+5x+2)$$
$$(3x^3-4x^2-2x-5)(4x^4+2x^3-2x^2+4x-1)$$
$$(5x^3-4x^2+1)(4x^4-x^3+3x^2+4)$$
$$(4x^3+2x^2+2x-5)(2x^4-5x^3-5x^2+2x+2)$$

$$(3x^3-2x^2+3)(5x^4-3x^3+3x^2-5x+3)$$
$$(2x^3-3x^2+5x+2)(5x^4-4x^3+2x^2+4x-1)$$
$$(3x^3-5x^2-4x+1)(4x^4+x^2-x+1)$$
$$(x^3+x^2+2x+5)(3x^4+3x^2+x+1)$$
$$(x^3-4x^2-x-5)(2x^4+5x^3+4x^2-2x-5)$$
$$(4x^3+3x^2-2x+1)(2x^4+3x^3+3x^2+2x+4)$$
$$(3x^3+2x^2-2)(4x^4-x^3+3x+1)$$
$$(4x^3+2x^2-5x+3)(5x^4-x^3+3x+4)$$
$$(x^3-4x^2-x-5)(3x^4+x^3-5x^2-3x+2)$$
$$(x^3-5x^2-5x+5)(5x^4+4x^2-3x-5)$$
$$(3x^3-5x^2-2x-5)(x^4+3x^3+2x^2+2x-2)$$
$$(2x^3-5x^2+3x-1)(4x^4+5x^3+3x^2+2)$$
$$(3x^3-2x^2+x-5)(2x^4-3x^3+5x^2-x-1)$$
$$(2x^3-5x^2+5x-4)(3x^4+2x^3-x^2+2x+1)$$
$$(3x^3+4x-1)(3x^4-5x^2+5x-4)$$
$$(x^3+x^2-3x-4)(3x^4-2x^3+3x^2-5x-2)$$
$$(3x^3+2x^2-4x-2)(x^4-5x^3+3x^2+2x-5)$$
$$(3x^3+x^2+x+4)(3x^4+x^3+x^2+3x+3)$$
$$(4x^3-4x^2+5x-1)(5x^4-x^3+4x^2-5x+1)$$
$$(3x^3+4x+3)(5x^4-5x^3-3x^2-x-5)$$
$$(4x^3-5x^2+3x+5)(4x^4-5x^3-x^2-5x+1)$$
$$(4x^3-4x^2+2x+3)(2x^4-4x^3+4x^2-2x+5)$$
$$(4x^3-3x+2)(4x^4-4x^3-4x^2+x+5)$$
$$(2x^3+x^2-2x-5)(3x^4+2x^3-x^2-5x-4)$$
$$(5x^3+4x^2+x-1)(x^4-5x^3-2x^2+2)$$
$$(4x^3-4x^2+x-3)(x^4-2x^3+3x^2+5x-2)$$
$$(2x^3+4x+3)(2x^4-x^3+4x^2-2x-2)$$
$$(4x^3+5x-4)(3x^4+3x^3+5x^2+x+3)$$
$$(3x^3+2x^2-1)(5x^4+5x^3-4x^2-x-3)$$
$$(5x^3-2x^2-4)(3x^4-x^3+x^2+3x-5)$$
$$(x^3+5x+3)(3x^4+3x^3-2x^2+4x-3)$$
$$(x^3+4x^2+3x-3)(3x^4+5x^2-3x-4)$$
$$(3x^3-2x^2+3x+4)(4x^4-x^3-x^2-5x-5)$$
$$(x^3-x^2-2x+3)(5x^4+2x^3-x-3)$$
$$(4x^3+3x^2+4x-5)(3x^4+5x^3+5x^2-2x-3)$$
$$(4x^3-4x^2+x-2)(4x^4+4x^3+x^2+2x+5)$$
$$(4x^3+3x^2-x+1)(x^4-2x^3-2x^2+3x-2)$$
$$(5x^3+5x^2+4x+2)(5x^4+2x^3-3x^2-3x+3)$$
$$(2x^3-4x^2+x+2)(3x^4+3x^3-4x^2-x+5)$$
$$(5x^3+x^2-2x+5)(2x^4+3x^3+2x^2-3x-2)$$
$$(5x^3+3x^2+4x+5)(3x^4+2x^3-3x^2-x-3)$$
$$(4x^3+3x^2+4x-4)(3x^4+3x^3-2x^2-2x+2)$$
$$(2x^3+4x^2-4x-1)(x^4-2x^3+5x^2-x-5)$$
$$(5x^3+x^2+5)(3x^4+x^3-2x^2+x+5)$$
$$(4x^3-3x^2+3)(5x^4+2x^3-3x^2-3x+4)$$
$$(5x^3-5x^2-2)(5x^4+2x^3-x^2-2x-3)$$
$$(4x^3-5x^2+3x-3)(5x^4-x^3-2x^2-2x+3)$$
$$(3x^3-x^2-x-3)(4x^4+2x^3+3x^2-2x-5)$$
$$(3x^3+x^2+4x+4)(4x^4+x^3+5x^2-x-2)$$
$$(2x^3-x^2-2x-1)(4x^4-x^3-5x^2-1)$$
$$(3x^3-x^2-x+4)(x^4+3x^3-4x^2-x-2)$$
$$(2x^3-4x^2+5x+3)(2x^4+4x^3+4x^2+3x+2)$$
$$(3x^3+x+2)(2x^4+3x^3+x^2-5x+3)$$
$$(3x^3-3x^2-3x-1)(x^4+2x^3-5x-2)$$
$$(4x^3+5x^2-5)(2x^4+3x^3+4x^2-x+5)$$
$$(3x^3-4x^2-2x-3)(5x^4+2x^3+x^2+4)$$
$$(2x^3-4x^2+5x-4)(5x^4+2x^3+4x^2+5x+5)$$
$$(4x^3-2x^2+2x-3)(4x^4-5x^3-3x^2-5x+4)$$
$$(2x^3-x^2-3x+4)(2x^4-5x^3-3x^2+5x-3)$$
$$(x^3+x^2+5)(5x^4+2x^3-2x^2+3x-1)$$
$$(x^3+3x^2-2x+2)(5x^4-3x^3-5x^2+3x-2)$$
$$(2x^3-4x^2+x-5)(4x^4+x^3-2x^2-x+4)$$
$$(2x^3+x^2-5x+4)(2x^4-3x^3+5x^2+4x+5)$$
$$(x^3+5x^2-3x-5)(4x^4-2x^3+3x^2-3x+5)$$
$$(4x^3-x^2-4x+5)(4x^4-5x^3-4x^2-x-1)$$
$$(5x^3+2x^2-1)(4x^4-x^3-x^2-5x-3)$$
$$(3x^3+4x^2+5)(3x^4+2x^3+4x^2+x+4)$$
$$(4x^3-3x^2-5x-4)(2x^4+3x^3-4x^2+2x-2)$$
$$(2x^3-5x^2-3x-4)(x^4+x^3+3x^2-2x+2)$$
$$(x^3+5x^2-3x-1)(4x^4-3x^3+5x^2+2x-4)$$
$$(2x^3-5x^2-3x+3)(4x^4-x^3-x^2+5x-3)$$
$$(2x^3-x^2+4x+5)(x^4+5x^3+5x^2+3x+3)$$
$$(2x^3+2x^2-4x+1)(5x^4-4x^3+4x^2+5x+4)$$
$$(4x^3-x^2+2x+2)(3x^4-3x^3-x^2-5x+2)$$
$$(3x^3+x^2-5x+3)(x^4+4x^3+x^2+x+4)$$
$$(3x^3+5x-5)(3x^4-4x^3-2x-1)$$
$$(2x^3-4x^2-2x-3)(2x^4+3x^2-x+5)$$
$$(5x^3-5x^2+3x-5)(5x^4-x^2-4x+4)$$
$$(2x^3+x^2+x+1)(x^4+3x^2-5x-4)$$
$$(5x^3+2x^2-4x-5)(5x^4+5x^3+4x^2+x+3)$$
$$(5x^3+5x^2+x-4)(2x^4+5x-2)$$
$$(4x^3-3x^2-4x-1)(x^4-2x^3+4x^2+3x-3)$$
$$(2x^3+3x-4)(5x^4-x^3-4x^2-2x-1)$$
$$(2x^3-2x+5)(4x^4+4x^3-4x^2+4x-3)$$
$$(x^3-3x^2+5x-4)(5x^4+2x^3-x^2-1)$$
$$(2x^3-x^2-4x+4)(x^4+2x^3+4x^2+4x+4)$$

9.6 일계수가 아닌 칠차식 3형

$$(2x^2-5x+5)(3x^5+2x^4-4x^3+x^2-2x-5)$$
$$(5x^2+3x-4)(5x^5+2x^4-x^3-4x^2+2x+1)$$

$$(4x^2+3x+1)(5x^5+5x^4-x^3+5x^2+4x+5)$$
$$(2x^2+3x+4)(5x^5+4x^4+x^3+4x^2-3x-1)$$
$$(3x^2+3x-5)(2x^5-5x^4-4x^3-2x^2+4x+1)$$
$$(5x^2+3)(4x^5+5x^4-2x^2-5x+2)$$
$$(3x^2+x+5)(x^5+3x^4-3x^3-x^2+x+2)$$
$$(3x^2-4x+4)(2x^5+x^4-2x^3-4x^2-2x-4)$$
$$(x^2-x+3)(2x^5-4x^3-4x^2-x-3)$$
$$(2x^2-5x+5)(3x^5-2x^4-3x^3-4x^2-x+4)$$
$$(x^2-5x+5)(4x^5-4x^4-5x-1)$$
$$(x^2+x+3)(5x^5-3x^3-5x^2+x-2)$$
$$(x^2-4x-3)(5x^5-3x^4+3x^3-3x^2+4x-5)$$
$$(x^2+3x+3)(4x^5-x^4+4x^3-x^2-4x-4)$$
$$(3x^2-x+1)(x^5+2x^4-2x^3-2x^2+5x-2)$$
$$(4x^2-2x-3)(x^5+2x^3+3x^2+5x-4)$$
$$(5x^2-2x-2)(x^5+x^4+5x^3-4x^2-5)$$
$$(x^2+x+3)(4x^5-2x^4-4x^3+3x^2-2x-5)$$
$$(x^2-5x+2)(4x^5-4x^4+3x^3-4x^2-4x+3)$$
$$(2x^2+2x+1)(x^5-2x^4+x^3+3x^2+5x+4)$$
$$(3x^2-x+1)(5x^5+x^4-2x^3-4x^2+4x-1)$$
$$(4x^2-4x-1)(5x^5+5x^4-2x^3-2x^2+x-3)$$
$$(x^2-x-3)(2x^5+4x^4-2x^3-4x^2-2x-3)$$
$$(x^2+5x-1)(2x^5-x^3+3x^2-3x+4)$$
$$(3x^2-3x+4)(x^5+2x^4+2x^3+5x^2-x+5)$$
$$(4x^2-4x+5)(2x^5-2x^4-3x^3-3x+4)$$
$$(2x^2+x+5)(2x^5+x^4+5x^3+x^2+2x+1)$$
$$(3x^2+3x+4)(5x^5-4x^4+2x^3+3x^2-x-4)$$
$$(4x^2-x-1)(5x^5+2x^4-3x^3-x^2-3x+5)$$
$$(4x^2-3x+5)(2x^5-2x^4+4x^3-3x^2+x-4)$$
$$(3x^2+1)(3x^5-x^3-3x+5)$$
$$(3x^2-3x-2)(2x^5-x^4-x^3-x^2-3x+1)$$
$$(5x^2-5x-4)(5x^5-5x^4+4x^2-4x-1)$$
$$(3x^2-x-3)(x^5-4x^4-5x^3+3x^2-5x-4)$$
$$(4x^2+5x-4)(x^5-2x^4+2x^2+5x-4)$$
$$(3x^2+5x+4)(4x^5-5x^4-5x^3-5x^2+5x-3)$$
$$(3x^2-3x+1)(2x^5+4x^4+4x^3-x^2+4x-3)$$
$$(5x^2+2x-2)(x^5-2x^4+x^3+2x^2+4x+5)$$
$$(x^2-5x+5)(3x^5+2x^4+x^3+2x+5)$$
$$(3x^2+x+1)(5x^5-4x^4+2x^3+5x^2-2x-5)$$
$$(x^2-5x-1)(2x^5-3x^4+5x^3+4x^2+x+1)$$
$$(4x^2+5x-2)(2x^5+3x^4+5x^3-3x^2-2x+2)$$
$$(x^2-2x-2)(5x^5+5x^4+x^3+4x^2-x-2)$$
$$(3x^2-2x-3)(4x^5+3x^4-4x^3-5x^2+2x-5)$$
$$(4x^2+x+4)(4x^5-3x^4+5x^3+5x-4)$$
$$(5x^2+4x-5)(5x^5-3x^4+5x^3+4x^2-x+2)$$
$$(5x^2+x+1)(5x^5+5x^4+5x^3+3x^2-4x+3)$$
$$(5x^2+4x+5)(2x^5-4x^4+4x^3-x^2-4x-4)$$
$$(3x^2-5x+1)(4x^5-x^4-4x^3+2x^2-4x+2)$$
$$(x^2+2)(2x^5+3x^4-2x^3-4x-5)$$
$$(2x^2-5x-2)(2x^5+2x^4+x^3-5x^2-2x-5)$$
$$(x^2-x+2)(2x^5-x^4+x^3+4x^2+5x+2)$$
$$(2x^2+5x+5)(x^5+x^4-2x^3-4x^2-4x-5)$$
$$(5x^2-x-1)(4x^5+3x^4+4x^3-2x^2+5x-2)$$
$$(5x^2-2x-1)(5x^5+5x^4-5x^3+4x+3)$$
$$(3x^2-2x+3)(5x^5+4x^4-3x^3+x^2+3x+5)$$
$$(2x^2+1)(x^5-4x^4+2x^3-4x^2-5x+4)$$
$$(2x^2+3x+4)(5x^5-4x^4+5x^3-x^2-x+1)$$
$$(2x^2+3x+3)(2x^5-2x^4+4x^3+2x^2+x-2)$$
$$(2x^2-3x-4)(5x^5-4x^4+x^3+5x^2+4x-5)$$
$$(4x^2+x+4)(3x^5+2x^4-2x^3+3x^2+3x-3)$$
$$(3x^2-2x+2)(x^5+5x^4-4x^3+2x^2-3x-4)$$
$$(3x^2+4x+4)(x^5+5x^4-x^3-5x^2-x-3)$$
$$(2x^2+3x-1)(4x^5-3x^3+3x^2+3x+4)$$
$$(x^2-2x-2)(5x^5+3x^4+4x^3-4x^2+3x-2)$$
$$(4x^2+4x+3)(x^5-x^3-5x^2+3x+5)$$
$$(x^2-2x+5)(5x^5+5x^4-3x^3+4x^2-3x+1)$$
$$(2x^2-5x+4)(4x^5-4x^4+3x^3+5x^2-2x+1)$$
$$(4x^2-3x+2)(3x^5+3x^4-5x-4)$$
$$(5x^2-x-2)(5x^5-4x^4+5x^3-3x^2-3x+5)$$
$$(5x^2-2x-4)(4x^5+x^4-x^2-2)$$
$$(2x^2-2x-5)(2x^5-5x^4-x^3-2x^2+2)$$
$$(4x^2+3)(3x^5+5x^4-x^3-x^2-5x-4)$$
$$(5x^2+x+3)(4x^5-2x^4-2x^3+3x^2+3x-1)$$
$$(x^2+2x+4)(5x^5-2x^4-2x^3-5x-4)$$
$$(x^2-2x-1)(3x^5-5x^4-5x^3-4x^2-2x-3)$$
$$(4x^2-5x+2)(4x^5-3x^4+4x^3+4x^2-x+2)$$
$$(5x^2+x-5)(4x^5+3x^4-x^3-2x^2+5x-2)$$
$$(2x^2-1)(5x^5-5x^4+4x^3-x^2-5x+5)$$
$$(x^2+4)(4x^5-5x^4-2x^2-x+3)$$
$$(5x^2-5x+3)(4x^5+4x^4-2x^3-3x^2+x+4)$$
$$(5x^2-3x+4)(4x^5-3x^4+x^3-x^2+3x+2)$$
$$(x^2-4x+1)(5x^5-2x^4+3x^3-3x^2-3x-2)$$
$$(5x^2+3x+2)(5x^5-2x^4+2x^3-3x^2+5x-5)$$
$$(x^2-x-1)(3x^5-3x^4-2x^3-x^2-4x-3)$$
$$(3x^2+4)(2x^5-2x^4+4x^3-2x^2+5)$$
$$(5x^2+3x-4)(5x^5+2x^4-x^3-x^2-4x+3)$$
$$(2x^2-3)(x^5+5x^4-5x^3-x^2-3x+4)$$
$$(3x^2-4x+2)(x^5-2x^4+3x^3+2x^2-4x+2)$$
$$(5x^2-4x+3)(3x^5-5x^4+2x^3+3x^2-1)$$
$$(4x^2-x-4)(5x^5+3x^4-3x^3-2x^2+2)$$
$$(2x^2-4x-1)(x^5+3x^4+2x^3+4x^2+2x-4)$$
$$(3x^2+4x-2)(2x^5-4x^4+3x^2+4x-3)$$
$$(5x^2+5x-1)(4x^5+x^4-2x^3-5x^2-5x-4)$$
$$(4x^2+3x-4)(2x^5+x^4-2x^3+x^2-2x-3)$$
$$(2x^2-x-4)(5x^5+4x^4+2x^3-x^2-x+4)$$

$$(2x^2+x+5)(3x^5-5x^4+x^3+x^2-3x-5)$$
$$(4x^2-4x-5)(3x^5-x^4+5x^3-x-2)$$
$$(x^2+2x+4)(3x^5-2x^3-x^2-3x-4)$$
$$(2x^2-3)(5x^5+4x^4-3x^3+2x^2+x+5)$$
$$(x^2+5x+1)(4x^5-x^4+3x^3-5x^2-5x+2)$$
$$(5x^2-x-2)(5x^5+3x^3-4x^2+5x+4)$$
$$(2x^2+4x+5)(2x^5+x^4+3x^3-4x^2-5x+2)$$
$$(5x^2+5x+3)(5x^5+3x^4+3x^3+4x^2+x+3)$$
$$(5x^2-3x+5)(x^5-2x^4-2x^3+2x^2-3x-1)$$
$$(4x^2-5)(4x^5-x^4+2x^3+5x^2+5x+5)$$
$$(x^2+4x-2)(5x^5-5x^4+2)$$
$$(2x^2-3x+4)(3x^5-5x^4+3x^3-2x^2-2x+1)$$
$$(x^2-3)(4x^5-2x^3-x^2+3x-5)$$
$$(x^2-3x+3)(2x^5-4x^4+4x^3-x^2-3x-1)$$
$$(2x^2+2x-1)(3x^5-2x^4-5x^3-x-3)$$
$$(2x^2-3x+3)(x^5+3x^4+5x^3-2x^2-5x+1)$$
$$(x^2-3x-2)(3x^5+2x^3+x^2-5x+1)$$
$$(3x^2-3x+1)(5x^5-x^3-4x^2-2x-3)$$
$$(x^2+x+3)(3x^5+3x^3-x^2+2x+1)$$
$$(4x^2-5x+5)(3x^5-4x^4-x^3-4x^2-3x+1)$$
$$(2x^2-2x-3)(4x^5-x^4+4x^3-5x^2-x-5)$$
$$(5x^2+2x-5)(3x^5+5x^4+2x^3-x^2-5x-3)$$
$$(4x^2-5x-2)(5x^5+4x^4-5x^2-x-1)$$
$$(x^2-4x-4)(2x^5-x^4-3x^3-4x^2-5x+5)$$

10. 특집: 백차식 3제

$$(x^{50}+x^{49}-x^{48}-x^{47}-5x^{46}-4x^{44}+5x^{43}+2x^{42}-x^{41}-5x^{40}-5x^{39}+3x^{38}+x^{37}+5x^{36}-x^{35}+x^{33}-5x^{32}-3x^{31}+2x^{30}+4x^{29}-5x^{28}-5x^{27}+3x^{26}-2x^{25}+x^{24}-3x^{23}+3x^{22}-5x^{21}+3x^{20}+5x^{19}-5x^{18}+3x^{17}-3x^{16}-x^{15}+x^{14}-4x^{13}-5x^{12}+5x^{11}-x^{10}-5x^{9}+3x^{8}-2x^{7}+x^{6}-x^{5}+5x^{4}+3x^{3}+x^{2}-x-1)(x^{50}+2x^{49}-x^{48}+5x^{47}+4x^{46}-2x^{45}-5x^{44}-5x^{43}+4x^{42}+2x^{40}-5x^{39}-5x^{38}+2x^{37}-4x^{36}+2x^{35}-4x^{34}-2x^{33}-2x^{32}-4x^{31}+4x^{30}+4x^{29}+x^{28}+5x^{27}-x^{26}-3x^{25}-3x^{24}-4x^{23}-2x^{22}-x^{21}-x^{20}+5x^{19}-4x^{18}+4x^{17}-3x^{16}-2x^{15}-3x^{14}+4x^{13}+x^{12}-x^{11}+2x^{10}+3x^{9}-x^{8}+3x^{7}+3x^{6}-4x^{4}-3x^{3}-2x^{2}+3x-2)(x^{50}-4x^{47}-4x^{46}-5x^{45}-2x^{44}+3x^{43}-5x^{42}-2x^{41}+2x^{40}+2x^{39}-3x^{38}-2x^{37}-x^{36}+4x^{35}-3x^{34}+3x^{32}+x^{31}-3x^{30}-2x^{29}-4x^{28}+2x^{27}-4x^{26}+5x^{25}+2x^{24}+2x^{23}-4x^{22}-x^{21}-3x^{20}-2x^{19}+2x^{18}-4x^{17}-3x^{16}+2x^{15}-3x^{14}-5x^{13}+4x^{12}+2x^{10}-5x^{9}-5x^{7}-5x^{6}+5x^{5}-5x^{4}+3x^{3}-3x^{2}+4)(x^{50}+4x^{49}-2x^{48}-3x^{47}-x^{46}+5x^{45}+2x^{44}+x^{43}-x^{42}+5x^{41}-4x^{40}+4x^{39}+2x^{38}-3x^{37}+2x^{36}+3x^{35}+4x^{34}+x^{32}+4x^{31}+2x^{30}-3x^{28}-x^{27}+3x^{26}-2x^{25}-5x^{24}-x^{23}-3x^{22}+4x^{20}+4x^{19}-4x^{18}+5x^{17}+5x^{16}-x^{15}+4x^{14}-x^{13}+x^{12}-4x^{11}-2x^{10}-3x^{9}+5x^{8}-x^{7}-x^{6}-4x^{5}+4x^{4}-4x^{3}+5x^{2}+2x+5)(x^{50}+3x^{49}-2x^{48}-4x^{47}+3x^{46}-x^{45}-x^{44}-4x^{43}+4x^{42}-5x^{41}-x^{39}-2x^{38}+2x^{37}-3x^{36}+4x^{35}+3x^{34}+2x^{33}-x^{32}-4x^{31}-5x^{29}+x^{28}+5x^{27}-5x^{26}+3x^{25}+4x^{24}-3x^{23}-4x^{22}-2x^{21}-3x^{19}+2x^{18}-4x^{17}-3x^{16}-2x^{15}+3x^{14}-3x^{13}-2x^{12}+5x^{11}+5x^{9}+5x^{8}-5x^{7}-4x^{6}-x^{5}-5x^{4}-5x^{3}+x^{2}+2x+5)(x^{50}+2x^{49}-2x^{48}+3x^{47}-5x^{46}-4x^{45}+4x^{44}-3x^{43}+x^{42}+3x^{41}-5x^{39}-3x^{38}-x^{37}+5x^{36}+2x^{35}+3x^{34}+2x^{33}-x^{32}-5x^{31}-3x^{30}-x^{29}+5x^{28}+2x^{27}+x^{26}-3x^{25}-4x^{24}+4x^{23}-2x^{22}-4x^{21}-x^{19}-x^{18}-4x^{17}-5x^{16}+x^{14}+3x^{13}-4x^{12}+4x^{11}-x^{10}+x^{9}-x^{8}+3x^{7}+3x^{6}-x^{5}+3x^{4}+2x^{2}+3x-1)$$