x^2+2x+1

$(x+1)(x+1)$

$5x^3+7x^2-(20x-28)$

$x^2(5x+7)-4(5x+7)$

$(x^2-4)(5x+7)$

$(x+2)(x-2)(5x+7)$

x^2+6x+8

$(x+2)(x+4)$

$2+4=6$

$2\cdot 4=8$

x^2-25

$x^3 - 27$

$x^3 - 3^3$

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

$4x^2 - 121$

$(2x)^2 - 11^2$

$(2x+11)(2x-11)$

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

$x(x-4) + 5(x-4)$

$(x+5)(x-4)$

$6x^3y + 12x^2y$

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

$2x^4 - 8x^2$

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

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

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

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

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

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

$x(2x^2-7x-4)$

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

$9x^2 - 12x + 4$

$(3x-2)(3x-2)$

$x^4 - 1$

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

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

$4x^2 - 4x - 8$

$4x^2 - 9$

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

$2x^2 - 10x + 7x - 35$

$x^3 + 8$

$8x^3 - 32x$

$2x^2 - 9x + 9$

$x^2 - 5x + 6$

$4x^2 - 4x - 15$

$2x^2 - 3x - 2$