

① $5x(2x-3)$
 $5x(2x) + 5x(-3)$
 $10x^2 - 15x$

② $7w(2w^2 - w + 4)$
 $7w(2w^2) + 7w(-w) + 7w(4)$
 $14w^3 - 7w^2 + 28w$

③ $(x+8)(x+3)$
 $x(x) + x(3) + 8(x) + 8(3)$
 $x^2 + 3x + 8x + 24$
 $x^2 + 11x + 24$

④ $(5x-3y)(2x+4y)$
 $5x(2x) + 5x(4y) - 3y(2x) - 3y(4y)$
 $10x^2 + 20xy - 6xy - 12y^2$
 $10x^2 + 14xy - 12y^2$

⑤ $(n-2)(n+3)$
 $n(n) + n(3) - 2(n) - 2(3)$
 $n^2 + 3n - 2n - 6$
 $n^2 + n - 6$

⑥ $(x+5)(x-5)$ "CONJUGATES"
 $x(x) + x(-5) + 5(x) + 5(-5)$
 $x^2 - 5x + 5x - 25$
 $x^2 - 25$

⑦ $(2x^2-5)(2x^2+5)$
 $2x^2(2x^2) - 5(5)$
 $4x^4 - 25$

⑧ $(4x-3y)^2$
 $(4x-3y)(4x-3y)$

⑨ $(3x-1)(4x^2+2x-5)$
 $3x(4x^2) + 3x(2x) + 3x(-5) - 1(4x^2) - 1(2x) - 1(-5)$
 $12x^3 + 6x^2 - 15x - 4x^2 - 2x + 5$
 $12x^3 + 2x^2 - 17x + 5$

$4x(4x) + 4x(-3y) - 3y(4x) - 3y(-3y)$
 $16x^2 - 12xy - 12xy + 9y^2$
 $16x^2 - 24xy + 9y^2$

⑩ $(4x^2-5x+2)(x^3+3x-1)$
 $4x^2(x^3) + 4x^2(3x) + 4x^2(-1) - 5x(x^3) - 5x(3x) - 5x(-1) + 2(x^3) + 2(3x) + 2(-1)$
 $4x^5 + 12x^3 - 4x^2 - 5x^4 - 15x^2 + 5x + 2x^3 + 6x - 2$
 $4x^5 + 14x^3 - 19x^2 - 5x^4 + 11x - 2 = 4x^5 - 5x^4 + 14x^3 - 19x^2 + 11x - 2$