# Multiplying Polynomials

MADS-PM

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

$3x^3+6x$

Ex) $4x^2(x^2+2xy+3y^2)$

$4x^4+8x^3y+12x^2y^2$

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

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

$12x^3-5x^2-3x$

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

$(2x-1)(2x-1)(2x-1)$

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

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

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

$8x^3-12x^2+6x-1$

- When multiplying like bases, add exponents