

Multiply Polynomials

Find the product and simplify.

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

$$(5y^2 - 2)(6y^2c^2 + 6c^2 - 2y - 2)$$

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

$$(-n^2 + 2y)(-3n^2 + 3n + 4)$$

Multiply Polynomials

Find the product and simplify.

$$\begin{aligned} & (4x^3y-2)(-x^2y^2-2xy-2y+1) \\ & = -4x^5y^3 - 8x^4y^2 - 8x^3y^2 + 4x^3y + 2x^2y^2 + 4xy + 4y - 2 \end{aligned}$$

$$\begin{aligned} & (5y^2-2)(6y^2c^2+6c^2-2y-2) \\ & = 30y^4c^2 + 18y^2c^2 - 10y^3 - 10y^2 - 12c^2 + 4y + 4 \end{aligned}$$

$$\begin{aligned} & (-2p^5-6p)(-2p^2+3p-3) \\ & = 4p^7 - 6p^6 + 6p^5 + 12p^3 - 18p^2 + 18p \end{aligned}$$

$$\begin{aligned} & (-n^2+2y)(-3n^2+3n+4) \\ & = 3n^4 - 3n^3 - 4n^2 - 6n^2y + 6ny + 8y \end{aligned}$$