

Polynomial Warm Up

1. $6x^5y^3(3xy^2 - 2x^4z^2 + 5xy^2)$

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

3. $3a^2b^4(2a^3b^{-2} - 3ab^2c^3 + 1)$

$$1. \quad 6x^5y^3(\underline{3xy^2} - 2x^4z^2 + 5xy^2)$$
$$18x^6y^5 - 12x^9y^3z^2 + 30x^6y^5$$
$$48x^6y^5 - 12x^9y^3z^2$$

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$$2. (3x + 2)(5x - 1)$$
$$15x^2 - \underline{3x} + \underline{10x} - 2$$
$$= 15x^2 + 7x - 2$$

$$3. \quad 3a^2b^4 (\underline{2a^3b^{-2}} - \underline{3ab^2c^3} + \underline{1})$$

$$6a^5b^2 - 9a^3b^6c^3 + 3a^2b^4$$

$$\begin{aligned} & 5(2x-1)^2 \\ & 5(2x-1)(2x-1) \\ & 5(4x^2-2x-2x+1) \\ & 5(4x^2-4x+1) \\ & 20x^2-20x+5 \end{aligned}$$