

DO NOW

Subtract $(5x^2 + 2x - 1)$ from $(4x^2 - 3x + 2)$ and write your answer in standard form

$$4x^2 - 3x + 2 - (5x^2 + 2x - 1)$$

$$\begin{aligned} 4x^2 - 3x + 2 - 5x^2 - 2x + 1 \\ -x^2 - 5x + 3 \end{aligned}$$

Oct 23-5:45 AM

Multiplying a Monomial by a Polynomial

Use the distributive property and follow the rules of exponents!

EXAMPLE

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

$$-2x^2(4x^2) - 2x^2(3)$$

$$\boxed{-8x^4 - 6x^2}$$

Oct 23-8:57 AM

Find each product

1) $6p(p - 8)$

$$6p^2 - 48p$$

2) $5m^2(3m^2 - m - 7)$

$$15m^4 - 5m^3 - 35m^2$$

Sep 16-7:29 AM

Simplify each expression. Answers must be written in standard form

$$3) y(y + 4) - y(y - 3) - 9y$$

~~$y^2 + 4y$~~ ~~$- y^2$~~ ~~$+ 3y$~~ ~~$- 9y$~~

$-2y$

Sep 16-1:19 PM

$$4b(5b - 3) - 2(b^2 - 7b - 4)$$

$$20b^2 - 12b - 2b^2 + 14b + 8$$

$$18b^2 + 2b + 8$$

$$5) 3m(3m + 6) - 3(m^2 + 4m + 1)$$

$$\underline{9m^2 + 18m} - \underline{3m^2} - \underline{12m} - 3$$

$$6m^2 + 6m - 3$$

$$6) 4n(3n^2 + n - 4) - n(3 - n)$$

$$\underline{12n^3 + 4n^2} - \underline{16n} - \underline{3n} + \underline{n^2}$$

$$12n^3 + 5n^2 - 19n$$

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$$7) 2(4x^2 - 2x) - 3(-6x^2 + 4) + 2x(x - 1)$$

$$8x^2 - 4x + 18x^2 - 12 + 2x^2 - 2x$$

$$28x^2 - 6x - 12$$

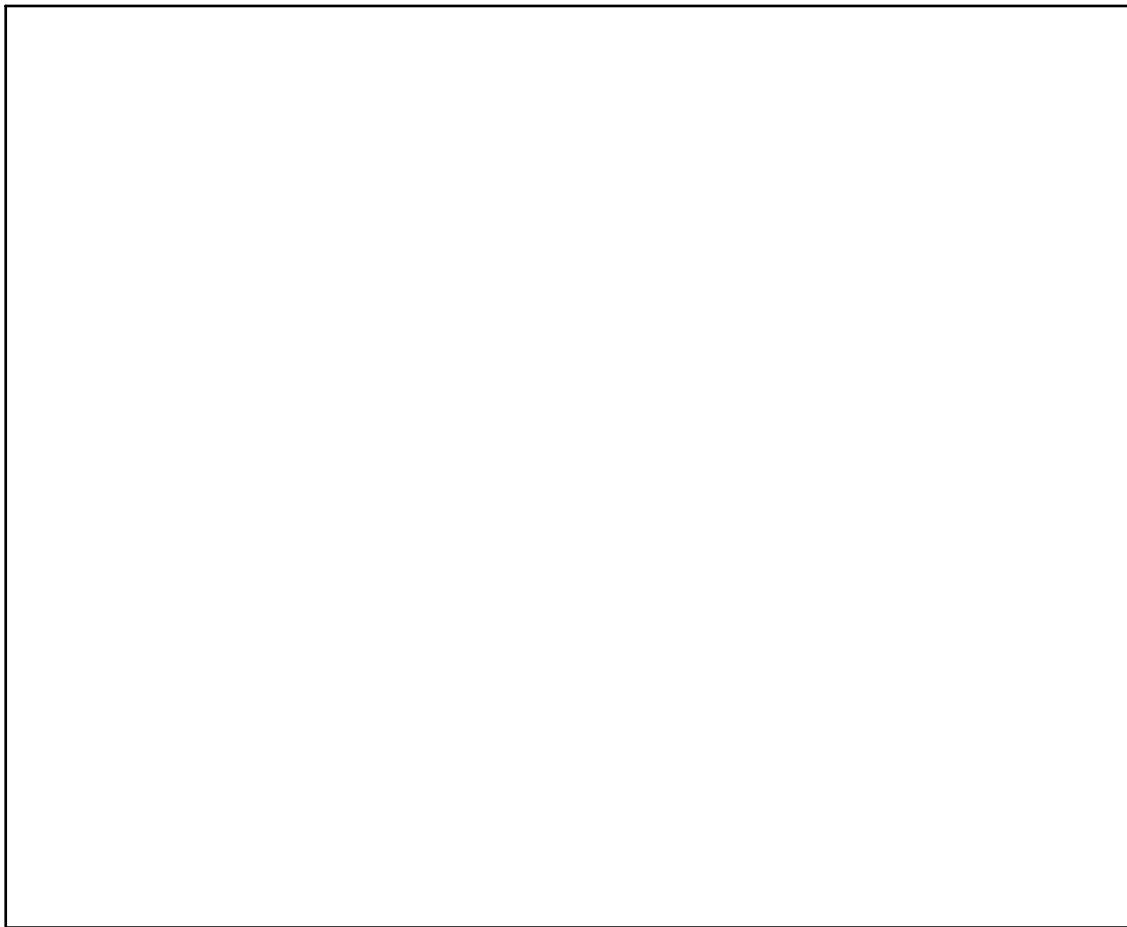
$$8) 3xy(x^2 + xy + y^2)$$

$$3x^3y + 3x^2y^2 + 3xy^2$$

$$9) 3ab(4a^2 - 7b^3)$$

$$12a^3b - 21ab^4$$

Sep 16-7:31 AM



Mar 13-6:40 AM