

monomials

•multiplication•

#1

Example:

$$(4x^2y^5)(4x^3y) =$$

1. Multiply the coefficients.

$$(4x^2y^5)(4x^3y) = 16$$

2. Multiply the variables by adding the exponents.

$$(x^2)(x^3) = x^{2+3} = x^5$$

$$(y^5)(y) = y^{5+1} = y^6$$

Answer: $16x^5y^6$

Multiply the monomials.

1. $(3)(4x) =$ _____

2. $(5xy^3)(2x^2y) =$ _____

3. $(xy^8)(7xy^3) =$ _____

4. $(y^3)(y^3) =$ _____

5. $(3x)(4x^4y) =$ _____

6. $(6xy^4)(2x^3y^6) =$ _____

7. $(x^4y^5)(xy) =$ _____

8. $(2xy^5)(8x^3y) =$ _____

9. $(10xy^5)(2xy) =$ _____

10. $(7x)(2xy) =$ _____

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Answer: $16x^5y^6$

Multiply the monomials.

1. $(3)(4x) =$ $12x$

2. $(5xy^3)(2x^2y) =$ $10x^3y^4$

3. $(xy^8)(7xy^3) =$ $7x^2y^{11}$

4. $(y^3)(y^3) =$ y^6

5. $(3x)(4x^4y) =$ $12x^5y$

6. $(6xy^4)(2x^3y^6) =$ $12x^4y^{10}$

7. $(x^4y^5)(xy) =$ x^5y^6

8. $(2xy^5)(8x^3y) =$ $16x^4y^6$

9. $(10xy^5)(2xy) =$ $20x^2y^6$

10. $(7x)(2xy) =$ $14x^2y$