



Monomial

$15x^4$
 y^6x+2x
 17
 $11x6$

Binomial

$4x+7$
 t^2-7t^4
 $1x+5d$
 $0.7x+19.4xy$

Trinomial

$y-u-o$
 $x+y-5$
 $m+a+t$

Place each polynomial in the proper category.

#1

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

$$x^3 - \underline{2x^2} + \underline{3x^2} - \underline{6x} - \underline{5x} + 10$$

$$= x^3 + 1x^2 - 11x + 10$$

#2

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

$$= y^3 + 2xy - 2y - 4y^2 - 8x + 8$$

#3

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

$$6x^2 + \underline{3x} - \underline{4x} - 2$$

$$6x^2 - 1x - 2$$

#4

$$(6x - 3)^2$$

$$(\underline{6x - 3})(\underline{6x - 3})$$

$$36x^2 - \underline{18x} - \underline{18x} + 9$$

$$36x^2 - 36x + 9$$

#5

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

$$5(6x^2 + 4x - 6x - 4)$$

$$5(6x^2 - 2x - 4)$$

$$= 30x^2 - 10x - 20$$

#6

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

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

$$3(16x^2 + 8x + 8x + 4)$$

$$3(16x^2 + 16x + 4)$$

$$48x^2 + 48x + 12$$

What if?

$$(4x^5 y^2 z^8)(2x^{-4} y^5)(5y^{-2} z^7)$$

$$(8x^1 y^7 z^8)(5y^{-2} z^7) \\ = 40x^1 y^5 z^{15}$$

Warm Up Questions

#1

$$4x^2y^3(2x^{-2}z^3 - 5x^4y^2 - 3x^{-2}z^3)$$

#2

$$(5x^4y^3)(3x^{-3}w^2)(2x^5y^2)$$

#3

$$2x(2x + 3) - (8x^2 - 3) + 2(4x + 2)$$

#4

$$(8x^3)(5x^2)(-3)$$

#1

$$4x^2y^3(2x^{-2}z^3 - 5x^4y^2 - 3x^{-2}z^3)$$

$$8x^0y^3z^3 - 20x^6y^5 - 12x^0y^3z^3$$

$$\underline{8y^3z^3} - 20x^6y^5 - \underline{12y^3z^3}$$

$$-4y^3z^3 - 20x^6y^5$$

$$\begin{aligned} \#2 \quad & (5x^4y^3)(3x^{-3}w^2)(2x^5y^2) \\ & (15x^1y^3w^2)(2x^5y^2) \\ & 30x^6y^5w^2 \end{aligned}$$

#3

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

$$\underline{4x^2} + 6x - \underline{8x^2} + 3 + 8x + 4$$

$$= -4x^2 + 14x + 7$$

$$\begin{aligned} \#4 \quad & (8x^3)(5x^2)(-3) \\ & (40x^5)(-3) \\ & -120x^5 \end{aligned}$$

TEST