

Determine whether each of the following expressions is a polynomial:

a. $x^2 - 3x - 1$

yes

b. $x^2 + 2x - 1$

no (all exponents must be whole #s)

Classify each of the following polynomials by number of terms:

a. $x^2 - 3x - 1$

trinomial

b. $2x - x^2$

binomial

notes: one term: monomial

two terms: binomial

three terms: trinomial

Classify each of the following polynomials by degree:

a. $x^2 - 3x - 1$

b. $x^2 - 2x$

degree = 0: constant

= 1: linear

= 2: quadratic

= 3: cubic

= 4: quartic

= 5: quintic

Factor completely

a. $x^2 + 27$

b. $x^2 - 8$

c. $x^2 - 36$

d. $x^2 + 36$

a) $(x+3)(x^2 - 3x + 9)$

4c) $(x+6)(x-6)$

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

4d) $(x+6i)(x-6i)$

Use the binomial theorem to expand

a. $(2x+1)^3$

b. $(x-3)^5$

c. $(x+4)^5$

d. $(x+2y)^5$

5a) $1(2x)^3 + 3(2x)^2 + 3(2x) + 1$
 $= 8x^3 + 12x^2 + 6x + 1$

5b) $1x^5 - 5x^4(3) + 10x^3(3)^2 - 10x^2(3)^3 + 5x(3)^4 - 1(3)^5$
 $= x^5 - 15x^4 + 90x^3 - 270x^2 + 405x - 243$

5c) $1x^4 + 4x^3(4) + 6x^2(4)^2 + 4x(4)^3 + 1(4)^4$
 $= x^4 + 16x^3 + 96x^2 + 256x + 256$

Divide using synthetic division or long division

a. $(x^2 + 2) \div (x + 1)$

$$\begin{array}{r|rrrr} -1 & 1 & 0 & 0 & 2 \\ & -1 & 1 & -1 & \\ \hline & 1 & -1 & 1 & 1 \\ & & X^2 - X + 1 & + \frac{1}{x+1} \end{array}$$

c. $(8x^3 + 5x^2 - 12x + 10) \div (x^2 - 3)$

b. $(5x^4 + 2x^3 - 9x + 12) \div (x^2 - 3x + 4)$

$$\begin{array}{r} 5x^2 + 17x + 31 \\ x^2 - 3x + 4 \overline{) 5x^4 + 2x^3 + 0x^2 - 9x + 12} \\ \underline{-5x^4 + 15x^3 + 20x^2} \\ 17x^3 - 20x^2 - 9x \\ \underline{-17x^3 + 51x^2 + 68x} \\ 31x^2 - 77x + 12 \\ \underline{-31x^2 + 93x + 124} \\ 16x - 112 \end{array}$$

$$\begin{array}{rrrrrrrr} & & & 1 & & & & \\ & & & & 1 & & & \\ & & & & & 2 & & \\ & & & & & & 1 & \\ & & & & & & & 1 \\ & & 1 & 3 & 3 & 1 & & \\ & & & 1 & 4 & 6 & 4 & 1 \\ & & & & 1 & 5 & 10 & 10 & 5 & 1 \end{array}$$

Polynomial And Factoring Quiz Gina Wilson

Léo Pomar



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