



LESSON 1: ALGEBRAIC EXPRESSIONS

PRE-TEST

No.	Tags	Questions	Answers
1	L1.1	A is a symbol which has exactly one number or a fixed value in its replacement set. a. Constant b. Variable c. Literal coefficient d. Arithmetic operation	а
2	L1.1	A is a symbol, usually a letter, which represents a value or a number. a. Constant b. Variable c. Exponent d. Arithmetic operation	b
3	L1.1	What is the numerical coefficient of 10xyz? a. 1 b. 10 c. xyz d. 10xyz	b
4	L1.1	What is the literal coefficient of -3axy? a. 3 b3 c. axy daxy	С
5	L1.2	Which of the following is a term? a. m+2 b.3(2x) c. z+y+x d. $y^3 - x^3$	b
6	L1.2	Determine its number of terms: $x^4 - 3x + 4$ a. 1	С





		b. 2 c. 3 d. 4	
7	L1.2	What is the number of terms in the expression below? $12x^4 + 3x^3 - 2x^2 + 1$ a. 1 b. 2 c. 3 d. 4	d
8	L1.2	Which of the following are similar terms? a. x and y b. $2x$ and $4x$ c. $3x^2$ and $6x^3$ d. $5x^2y$ and $5xy^2$	b
9	L1.3	Determine its degree: $x^4 - 5xy + 3$ a. 1 b. 2 c. 3 d. 4	d
10	L1.3	Determine its degree: $\frac{1}{3}x - \frac{1}{3}xy - 12$ a. 1 b. 2 c. 3 d. 12	b
11	L1.3	What is the degree of $\frac{x^4y}{2}$? a. 2 b. 3 c. 4 d. 5	d
12	L1.3	Determine its degree: 12x + 7	С





		a. 12 b. 0 c. 1 d. 2	
13	L1.4	A is an algebraic expression which represents a sum of one or more terms that contain whole-number exponents on the variables. a. constant b. variable c. literal coefficient d. polynomial	d
14	L1.4	Which of the following polynomials is NOT written in standard form? a. $x^2y + 2z + 5$ b. $11x^2 + 2x^4 + 1$ c. $3x^3 + 3x^2$ d. $\frac{1}{2}x + 5$	b
15	L1.4	In the expression below, what is the leading coefficient? x^5+3x^4+2x+1 a. 5 b. 4 c. 3 d. 1	d
16	L1.4	Which of the following is NOT a polynomial? a. $\sqrt{x} + 1$ b. $x^3 + xyz + 2$ c. $\frac{2x}{3} + 5$ d. $x^3 + x\sqrt{2}$	a
17	L1.5	What do you call a polynomial with three terms? a. Binomial b. Trinomial	b





		c. Quadratic d. Cubic	
18	L1.5	What kind of polynomial is the expression below according to the number of terms?	d
		$3 - 5x + x^2 + x^3$	
		a. Quartic b. Monomial c. Binomial	
		d. Polynomial	
19	L1.5	What kind of polynomial is the expression below according to the degree?	b
		$x^2 + 2$	
		a. Linear b. Quadratic c. Binomial d. Quintic	
20	L1.5	What kind of polynomial is the expression below according to the degree?	b
		$x^4 - 1$	
		a. Linear b. Quartic c. Quintic d. Quadratic	





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POST-TEST

No.	Tags	Questions	Answers
1	L1.1	Identify: It is a symbol, usually a letter, that represents a value or a number. a. constant b. exponent c. variable d. polynomial	С
2	L1.1	What do you call a symbol which has exactly one number or a fixed value in its replacement set? a. constant b. literal coefficient c. variable d. polynomial	a
3	L1.1	What is the literal coefficient of 5xyz? a. 5 b. 1 c. xyz d. 5xyz	С
4	L1.1	What is the numerical coefficient of $-2x^2y$? a. 2 b2 c. x^2y d. xy	b
5	L1.2	Determine its number of terms: $x^2 + 2x + 7y + 2$ a. 1 b. 2 c. 3	d





	r		1
		d. 4	
6	L1.2	Which of the following is a term? a. $x + y$ b. $y^2 - 2x$ c. $2(-5y)$ d. None of the above	С
7	L1.2	What is the number of terms in the expression below? $3x^4 + 32 - 2x^2 + x$ a. 1 b. 2 c. 3 d. 4	d
8	L1.2	Which of the following are similar terms? a. $2x$ and $5y$ b. $2x^3$ and $2x^4$ c. $3x^2$ and $5x^3$ d. $2x^3y$ and $11x^3y$	d
9	L1.3	Determine its degree: $x^2 - xy - 4$ a. 1 b. 2 c. 3 d. 4	b
10	L1.3	Determine its degree: 80x - 22 a. 80 b22 c. 0 d. 1	d
11	L1.3	Determine its degree: $x - 2xyz + 21$ a. 1 b. 2 c. 3	С





		d. 4	
12	L1.3	What is the degree of the expression below? $\frac{x^2y^4}{3} + xz - 1$	d
		a. 2 b. 3 c. 4 d. 6	
13	L1.4	Which of the following polynomials is written in standard form? a. $\frac{1}{5}x^5 + 2x^3 + 3x + 5$ b. $2x^3 + 2y^3 + x + y^2$ c. $11 + x^2$ d. $11x + 10y + 8x^2$	а
14	L1.4	In the expression below, what is the leading coefficient? $-12x^4+11x^3+x+140$ a12 b. 11 c. 1 d. 140	a
15	L1.4	An expression is NOT a polynomial if: a. The variable is inside a radical sign b. The exponent is not a whole number c. The variable is in the denominator d. All of the above	d
16	L1.4	Which of the following is a polynomial? a. $\frac{5}{x+20}$ b. $\sqrt{20}xyz + \frac{1}{3}$ c. $x^y + 2y$ d. $12\sqrt[5]{3x} + x^2$	b





17	L1.5	What kind of polynomial is the expression below according to the degree?	d
		$x^3 + 3 + x^5$ a. Cubic b. Quartic c. Quadratic d. Quintic	
18	L1.5	What kind of polynomial is the expression below according to the number of terms?	С
		7 + x a. Linear b. Monomial c. Binomial d. Quadratic	
19	L1.5	What kind of polynomial is a polynomial with five terms? a. Quintic b. Polynomial c. Quartic d. Trinomial	b
20	L1.5	What kind of polynomial is the expression below according to the degree? $x+21 \label{eq:condition}$	d
		a. Binomialb. Quadraticc. Monomiald. Linear	