PREVIEW CLOSE

Quiz: Degrees of Polynomials

Question 1a of 15 (2 Classification of monomials, binomials, and trinomials 91150)

Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which of the following are binomials? *Check all that apply.*

Correct Answers:

	Choice
A.	x^{11}
B.	x^8
C.	$x^3 + 8 + y$
D.	$x + \frac{3}{x}$
***E.**	$-x + 24$
***F.**	$x + 3$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $-x + 24$ and $x + 3$.

Question 1b of 15 (2 Classification of monomials, binomials, and trinomials 279498)

Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which of the following are binomials? *Check all that apply.*

Correct Answers:

	Choice
***A.**	$x^{11} + 1$
B.	x^8
C.	$2x^4 + x^2 +$
***D.**	$x^2 + 2$
E.	$2 +$
F.	$x^2 + x + 3$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $x^{11} + 1$ and $x^2 + 2$.

Question 1c of 15 (2 Classification of monomials, binomials, and trinomials 279499)

Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which of the following are binomials? *Check all that apply.*

Correct Answers:

	Choice
*A.	$x + 2$
B.	$x + \frac{}{}$
*C.	$x^2 + 18$
D.	x^7
E.	$-x^{10}$
F.	x

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $x + 2$ and $x^2 + 18$.

Question 2a of 15 (2 Classification of monomials, binomials, and trinomials 91151)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which of the following is a trinomial with a constant term?

	Choice	Feedback
A.	$x^3 + 12x^2 + x$	
B.	$y - 42^6$	
C.	$-x + 42$	
*D.	$x + 7y + 6$	
E.	$x^{7 - 6}$	
F.	y^{13}	

Global Incorrect Feedback
The correct answer is: $x + 7y + 6$.

Question 2b of 15 (2 Classification of monomials, binomials, and trinomials 280570)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which of the following is a trinomial with a constant term?

	Choice	Feedback
***A.**	$x^2 + x + 1$	
B.	$x - 2^6$	
C.	$x + 21$	
D.	$x^2 + 7y^2 + 2y$	
E.	y^{10}	
F.	$y^{5 - 2}$	

Global Incorrect Feedback
The correct answer is: $x^2 + x + 1$.

Question 2c of 15 (2 Classification of monomials, binomials, and trinomials 280571)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which of the following is a trinomial with a constant term?

	Choice	Feedback
A.	$y + x^3$	
B.	$x^3 + 12x^2 + x$	
***C.**	$x - y + 3$	
D.	$x + 7y$	
E.	x^7	
F.	$y^2 + 12$	

Global Incorrect Feedback
The correct answer is: $x - y + 3$.

Question 3a of 15 (2 Classification of monomials, binomials, and trinomials 91152)

Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which of the following are monomials? *Check all that apply.*

Correct Answers:

	Choice
***A.**	$20x^{11}$
***B.**	99
C.	$x + 9$
D.	$11^2 - 9$
E.	$11x - y$
***F.**	x^9

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $20x^{11}$, 99 and x^9.

Question 3b of 15 (2 Classification of monomials, binomials, and trinomials 280572)

Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which of the following are monomials? *Check all that apply.*

Correct Answers:

	Choice
***A.**	x^{23}
B.	$x^9 + y^9$
***C.**	y
***D.**	19
E.	$2x + 2$
F.	$13^9 + 12$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: x^{23}, y, and 19.

Question 3c of 15 (2 Classification of monomials, binomials, and trinomials 280573)

Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which of the following are monomials? *Check all that apply.*

Correct Answers:

	Choice
A.	$2x + 12$
***B.**	$9x$
C.	$24 + 2^2$
***D.**	13
***E.**	x^{20}
F.	$x - y$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $9x$, 13, and x^{20}.

Question 4a of 15 (2 Identifying terms, constants, coefficients, and degrees 91153)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which of the following is a trinomial with a constant term?

	Choice	Feedback
A.	$-x + y^{10}$	
B.	$x^3 + 11x^2 + x$	
C.	$y^7 - 29$	
D.	y^5	
E.	$x^{(4 - 7)} + 3$	
***F.**	$x + 4y + 7$	

Global Incorrect Feedback
The correct answer is: $x + 4y + 7$.

Question 4b of 15 (2 Identifying terms, constants, coefficients, and degrees 280575)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which of the following is a trinomial with a constant term?

	Choice	Feedback
A.	$x^{(10 - 2)} + 7$	
B.	x^3	
***C.**	$y^5 + 13x + 12$	
D.	$x^8 + 64$	
E.	$x^4 + 3y^2 + 2y$	
F.	$x + 4y$	

Global Incorrect Feedback
The correct answer is: $y^5 + 13x + 12$.

Question 4c of 15 (2 Identifying terms, constants, coefficients, and degrees 280576)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which of the following is a trinomial with a constant term?

	Choice	Feedback
***A.**	$x + 2y + 10$	
B.	$y^6 + 8y^3 + 64y$	
C.	$y^8 - 2x$	
D.	$y^{(3 + 2)}$	
E.	$x^3 + y$	
F.	x	

Global Incorrect Feedback
The correct answer is: $x + 2y + 10$.

Question 5a of 15 (2 Distinguishing between polynomials and non-polynomials 91154)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Identify the variable expression that is not a polynomial.

	Choice	Feedback
*A.	$x^{-9} + y^3$	
B.	33	
C.	$y^9 + 27$	
D.	$x + 12$	

Global Incorrect Feedback
The correct answer is: $x^{-9} + y^3$.

Question 5b of 15 (2 Distinguishing between polynomials and non-polynomials 280590)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Identify the variable expression that is *not* a polynomial.

	Choice	Feedback
A.	$x^2 + 2$	
B.	$y^6 + x^2$	
*C.	$x^{-4} + y^2$	
D.	24	

Global Incorrect Feedback
The correct answer is: $x^{-4} + y^2$.

Question 5c of 15 (2 Distinguishing between polynomials and non-polynomials 280591)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Identify the variable expression that is *not* a polynomial.

	Choice	Feedback
A.	$x^8 + y^2$	
B.	12	
*C.	$y^{-9} + x^6$	
D.	$x + 14$	

Global Incorrect Feedback
The correct answer is: $y^{-9} + x^6$.

Question 6a of 15 (2 Distinguishing between polynomials and non-polynomials 91155)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Identify the variable expression that is *not* a polynomial.

	Choice	Feedback
***A.**	$4\sqrt{x} - 7$	
B.	$x + 11$	
C.	31	
D.	y^3	

Global Incorrect Feedback
The correct answer is: $4\sqrt{x} - 7$.

Question 6b of 15 (2 Distinguishing between polynomials and non-polynomials 280592)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Identify the variable expression that is *not* a polynomial.

	Choice	Feedback
A.	13	
B.	x^3	
***C.**	$3\sqrt{x} - 2$	
D.	$y + 23$	

Global Incorrect Feedback
The correct answer is: $3\sqrt{x} - 2$.

Question 6c of 15 (2 Distinguishing between polynomials and non-polynomials 280593)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Identify the variable expression that is *not* a polynomial.

	Choice	Feedback
A.	$y + 1$	
***B.**	$+ 2$	
C.	23	
D.	x^{12}	

Global Incorrect Feedback
The correct answer is: $+ 2$.

Question 7a of 15 (1 Determining what makes up a polynomial 120187)

Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question: A trinomial is also a polynomial.

	Choice	Feedback
***A.**	True	
B.	False	

Global Incorrect Feedback
The correct answer is: True.

Question 7b of 15 (1 Determining what makes up a polynomial 280594)

Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question: A monomial is also a polynomial.

	Choice	Feedback
*A.	True	
B.	False	

Global Incorrect Feedback
The correct answer is: True.

Question 7c of 15 (1 Determining what makes up a polynomial 280595)

Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question: A binomial is also a polynomial.

	Choice	Feedback
*A.	True	
B.	False	

Global Incorrect Feedback
The correct answer is: True.

Question 8a of 15 (2 Identifying terms, constants, coefficients, and degrees 120188)

Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 5
Question: What is the coefficient of the term of degree 4 in this polynomial?

$4x^8 + 5x^4 - 2x^3 + x^2 - 1$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 5.

Question 8b of 15 (2 Identifying terms, constants, coefficients, and degrees 280596)

Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 3
Question: What is the coefficient of the term of degree 4 in this polynomial?

$2x^5 + 3x^4 - x^3 + x^2 - 12$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 3.

Question 8c of 15 (2 Identifying terms, constants, coefficients, and degrees 280597)

Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 2
Question: What is the coefficient of the term of degree 4 in this polynomial?

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

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is 2.

Question 9a of 15 (1 Determining what makes up a polynomial 120189)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: polynomial, polynomials
Question: A number, a power of a variable, or a product of the two is a monomial, while a _____ is the sum of monomials.

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: polynomial.

Question 9b of 15 (1 Determining what makes up a polynomial 280598)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: sum, addition, add, adding
Question: A number, a power of a variable, or a product of the two is a monomial, while a polynomial is the _____ of monomials.

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: sum.

Question 9c of 15 (1 Determining what makes up a polynomial 280599)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: polynomial, polynomials
Question: A number, a power of a variable, or a product of the two is a monomial, while a _____ is the sum of monomials.

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: polynomial.

Question 10a of 15 (2 Identifying terms, constants, coefficients, and degrees 120190)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which of the following is a trinomial with a constant term?

	Choice	Feedback
A.	$2x^2 - 7$	
***B.**	$4x^2 - 3 + x$	
C.	$-2 + 5x^3$	
D.	$4x^5 + 2x - 2x^2$	

Global Incorrect Feedback
The correct answer is: $4x^2 - 3 + x$.

Question 10b of 15 (2 Identifying terms, constants, coefficients, and degrees 280600)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which of the following is a trinomial with a constant term?

	Choice	Feedback
A.	$x^2 - 6$	
B.	$4x^5 + 2x - 2x^2$	
C.	$-3 + 4x^4$	
***D.**	$5x^2 - 4 + x$	

Global Incorrect Feedback
The correct answer is: $5x^2 - 4 + x$

Question 10c of 15 (2 Identifying terms, constants, coefficients, and degrees 280601)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which of the following is a trinomial with a constant term?

	Choice	Feedback
***A.**	$2x^2 - 5 + x$	
B.	$4x^4 - 3x^2 + x$	
C.	$-3 + 4x^4$	
D.	$4x^4 + 2x^2 - 2x$	

Global Incorrect Feedback
The correct answer is: $2x^2 - 5 + x$

Question 11a of 15 (2 Classifying monomials, binomials, and trinomials 120191)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which of the following is a monomial?

	Choice	Feedback
***A.**	x	
B.	$(2 + x)^2$	
C.	$\log x$	
D.	y/x	

Global Incorrect Feedback
The correct answer is: x.

Question 11b of 15 (2 Classifying monomials, binomials, and trinomials 280602)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which of the following is a monomial?

	Choice	Feedback
A.	$(2 - x)^2$	
***B.**	y	
C.	x/y	
D.	log x	

Global Incorrect Feedback
The correct answer is: y.

Question 11c of 15 (2 Classifying monomials, binomials, and trinomials 280603)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which of the following is a monomial?

	Choice	Feedback
A.	$(x + 1)^2$	
B.	x^{-2}	
***C.**	x	
D.	y/x	

Global Incorrect Feedback
The correct answer is: x.

Question 12a of 15 (2 Determining what makes up a polynomial 120192)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which of the following is a polynomial?

	Choice	Feedback
A.	$7x^7 - 2x^{-4} + 3$	
B.	$(x^8 - 2)/(x^{-2} + 3)$	
C.	$x^{-x} - 1$	
***D.**	$x^2 + 2$	

Global Incorrect Feedback
The correct answer is: $x^2 + 2$.

Question 12b of 15 (2 Determining what makes up a polynomial 280604)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which of the following is a polynomial?

	Choice	Feedback
A.	$x^4 + x^{-4} + 16$	
B.	$(x^6 - 2)/(x^{-4} + 3)$	
***C.**	$x^2 - 1$	
D.	$x^{-y} + 2$	

Global Incorrect Feedback
The correct answer is: x^2 - 1.

Question 12c of 15 (2 Determining what makes up a polynomial 280605)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which of the following is a polynomial?

	Choice	Feedback
*A.	x^4 - 2	
B.	$(x^6 - 4)/(x^{-5} + 1)$	
C.	x^{-2} - 1	
D.	$x^{-x} + 2$	

Global Incorrect Feedback
The correct answer is: x^4 - 2.

Question 13a of 15 (3 Identifying terms, constants, coefficients, and degrees 120193)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 3/4, 3 / 4, 0.75, .75, (3/4), (3 / 4)
Question: Evaluate $(\frac{3}{4})x^0$.

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 3/4.

Question 13b of 15 (3 Identifying terms, constants, coefficients, and degrees 280606)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 1/2, 1 / 2, 0.5, .5, (1/2), (1 / 2)
Question: Evaluate ( )x^0.

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 1/2.

Question 13c of 15 (3 Identifying terms, constants, coefficients, and degrees 280607)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 1/4, 1 / 4, 0.25, .25, (1/4), (1 / 4)
Question: Evaluate $(\frac{1}{4})x^0$.

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 1/4.

Question 14a of 15 (1 Indicating the degree of a polynomial 120194)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: descending, decsending, desending
Question: Polynomials are written with the exponents of the terms in _____ order.

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: descending.

Question 14b of 15 (1 Indicating the degree of a polynomial 280608)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: exponents, exponent, exponential
Question: To write a polynomial in standard form, write the _____ of the terms in descending order.

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: exponents.

Question 14c of 15 (1 Indicating the degree of a polynomial 280609)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: terms, term
Question: To write a polynomial in standard form, write the exponents of the _____ in descending order.

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: terms.

Question 15a of 15 (2 Indicating the degree of a polynomial 120195)

Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 5
Question: What is the degree of $6x^5 - 4x^2 + 2x^3 - 3 + x$?

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 5.

Question 15b of 15 (2 Indicating the degree of a polynomial 280611)

Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 7
Question: What is the degree of $5x^7 - 4x^5 + 2x^6 - x^4$?

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 7.

Question 15c of 15 (2 Indicating the degree of a polynomial 280612)

Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 6
Question: What is the degree of $4x^6 - 2x^3 + x - 3 + x^3$?

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 6.