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Test (CS): Polynomials

Question 1 of 25 (90791)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	3
Question:	Which of the expressions are monomials? Check all that apply.

Correct Answers:

	Choice
*A.	3 <i>x</i> ²
* B .	-x ⁹
C.	2 <i>x</i> ⁻¹
*D.	16
Ε.	<i>x</i> ² - 2
F.	√x

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answers are: $3x^2$, $-x^9$, and 16.

Question 2 of 25 (284761)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	3
Question:	Which of the expressions are monomials? Check all that apply.

Correct Answers:

	Cho	ice	
Α.			
В.	9 <i>x</i> ²	- 2	
*C.	3 <i>x</i> ¹⁰)	
*D.	16		
*E.	2 <i>x</i>		
F.	5 <i>x</i> -1		
Atte	empt	Incorrect Feedback	
1st			
		Correct Feedback	
		Global Incorrect Feedback	

Preview

Question 3 of 25 (90792)

-	
Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	3
Question:	Which of the expressions are <i>not</i> polynomials? Check all that apply.

Correct Answers:

	Choice
* A .	x [°] J.X B
В.	$4 - 3x + 5x^6$
*C.	$5x^{1/2} + 4x^2$
D.	14 <i>x</i> ⁷
*E.	$\frac{x^2}{x+3} = \frac{1}{x+3}$
F.	$8x^{10} + 2x^5$

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answers are: $x^2 = \sqrt{x} - 3$, $5x^{1/2} + 4x^2$, and $\frac{x^2 - x - 12}{x - 3}$.

Question 4 of 25 (284763)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	3
Question:	Which of the expressions are <i>not</i> polynomials? Check all that apply.

Correct Answers:

	Choice
Α.	5 <i>x</i> ⁵
*В.	$5x^{-1} + 4x^{-2}$
C.	<i>x</i> ⁵ + 2
*D.	
*E.	$x^2 + + 4$
F.	$8x^{10} + 2x^5$

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answers are: $5x^{-1} + 4x^{-2}$, , and $x^2 + + 4$.

Question 5 of 25 (90793)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	3
Is Case Sensitive:	false
Correct Answer:	7
Question:	What is the degree of the polynomial in the expression below?

 $x^6 + 3 - 2x^2 + 4x^7 - 4x$

Attempt	Incorrect Feedback	
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is: 7.	

Question 6 of 25 (284765)

Maximum Attempts:	1	
Question Type:	Text Fill In Blank	
Maximum Score:	3	
Is Case Sensitive:	false	
Correct Answer:	9	
Question:	What is the degree of the polynomial in the expression below?	
	5 1 2 1 2 0 2	

 $x^5 + 1 - 3x^4 + 3x^9 - 2x$

Attempt	Incorrect Feedback	
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is: 9.	

Question 7 of 25 (90794)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	3
Is Case Sensitive:	false
Correct Answer:	-2
Question:	What is the coefficient of the term of degree 2 in the polynomial below?

 $x^6 + 3 - 2x^2 + 4x^7 - 4x$

Attempt	Incorrect Feedback	
1st		
	Correct Foodback	
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is: -2.	

Question 8 of 25 (284767)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	3
Is Case Sensitive:	false
Correct Answer:	5
Question:	What is the coefficient of the term of degree 7 in the polynomial below?

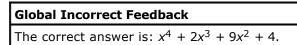
 $2x^6 + 2 - 4x^2 + 5x^7 - 4x$

Attempt	Incorrect Feedback	
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is: 5.	

Question 9 of 25 (90795)

Maximum Attempts:	1	
Question Type:	Multiple Choice	
Maximum Score:	3	
Question:	Which answer is equal to the sum in the expression below?	
	$(3x^3 + 4x^2 - 2x + 1) + (x^4 - x^3 + 5x^2 + 2x + 3)$	

	Choice	Feedback
А.	x4 + 2x3 + 9x2 + 4x + 4	
в.	$x^4 + 4x^3 + 9x^2 + 4$	
c.	x4 + 2x3 + 9x2 - 4x + 4	
*D.	$\frac{4x + 4}{x^4 + 2x^3 + 9x^2 + 4}$	



Question 10 of 25 (284769)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	3
Question:	Which answer is equal to the sum in the expression below?

$$(4x^3 + 2x^2 - x + 2) + (2x^4 - 3x^3 + 5x^2 + 6x + 3)$$

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

Global Incorrect Feedback The correct answer is: $2x^4 + x^3 + 7x^2 + 5x + 5$.

Question 11 of 25 (90796)

Maximum Attempts:1Question Type:True-FalseMaximum Score:3Question:When calco

When calculated, the sums in the expressions below are equal.

$$(5x^3 - 3x + 5) + (x^3 - 2x^2 + x - 4)$$

$$+x^3 + x^2 + 2x + 2$$

+ $2x^2 + 2x^2 + 5x + 4$

	Choice	Feedback
Α.	True	
* B .	False	

Global Incorrect Feedback The correct answer is: False.

Question 12 of 25 (284771)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	3
Question:	When calcu

3 When calculated, the sums in the expressions below are equal.

$$(4x^3 + 7)(+1) + (7x^3 + 7^2 + 7)(-7)$$

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

	Choice	Feedback
Α.	True	
*В.	False	

Global Incorrect Feedback The correct answer is: False.

Question 13 of 25 (90797)

Itiple Choice
nich answer is equal to the difference in the expression below?

$$(3x^3 - 4x^2 + x - 2) - (x^3 - 5x^2 + 3x + 2)$$

	Choice	Feedback
*A.	$2x^3 + x^2 - 2x$ - 4	
в.	2 <i>x</i> ³ - 9 <i>x</i> ² - 2 <i>x</i> - 4	
c.	$2x^3 + x^2 + 4x - 4$	
D.	$2x^3 + x^2 - 2x$	

Global Incorrect Feedback

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

Question 14 of 25 (284773)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	3
Question:	Which answer is equal to the difference in the expression below?

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

	Choice	Feedback
Α.	4 <i>x</i> ³ - 3 <i>x</i> ² - 5	
в.	4 <i>x</i> ³ - 3 <i>x</i> ² + <i>x</i> - 5	
c.	$4x^3 + 9x^2 + x - 5$	
*D.	4 <i>x</i> ³ - 3 <i>x</i> ² - <i>x</i> - 5	

Global Incorrect Feedback The correct answer is: $4x^3 - 3x^2 - x - 5$.

Question 15 of 25 (90798)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	3
Question:	When calculated, the two differences given below are equal.

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

 $5x^4 - 2x^2 + 3x^2 + 5x - 4$ $(2x^4 - 2x^2 + 7x^2 + 2x - 5)$

	Choice	Feedback
*A.	True	
В.	False	

Global Incorrect Feedback

The correct answer is: True.

Question 16 of 25 (284775)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	3
Question:	When calculated, the two differences given below are equal.

	Choice	Feedback
Α.	True	
*В.	False	

Global Incorrect Feedback The correct answer is: False.

Question 17 of 25 (90799)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	3
Question:	Which answer shows the FOIL method used to expand the product below?

 $(2 \times - 3)(2z^2 - 5)$

 $A = 2x + 2x^{2} + 2x + (-5) + 1 + 2x^{2} + 3 + (-5)$ $B = 2x + 2x^{2} + 2x + (-5) + 3 + 2x^{2} + 1 + (-5)$ $C = 2x + 2x^{2} - 3 + 2x^{2} + 2x^{2} + (-5) + 3 + (-5)$

	Choice	Feedback
Α.	Answer A	
*В.	Answer B	
C.	Answer C	

Global Incorrect Feedback
The correct answer is Answer B.

Question 18 of 25 (284777)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	3
Question:	Which answer shows the FOIL method used to expand the product below?

 $(z \times -2)(z \times^2 - 4)$

A 3x•3x² +3x•4+2•3x²+2•4 B 3x•3x² +3x•4+2•3x+2•4 C 3x•1x² +2•3x² +1x² •7+2•4

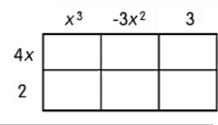
	Choice	Feedback
*A.	Answer A	
в.	Answer B	
C.	Answer C	

Global Incorrect Feedback
The correct answer is: Answer A.

Preview

Question 19 of 25 (90800)

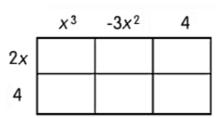
-	
Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	3
Is Case Sensitive:	false
Correct Answer:	-10
Question:	Below you can see a table set up to multiply two polynomials. What is the coefficient of the x^3 -term of the product?



Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is -10.

Question 20 of 25 (284779)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	3
Is Case Sensitive:	false
Correct Answer:	-2
Question:	Below you can see a table set up to multiply two polynomials. What is the coefficient of the x^3 -term of the product?



Attempt	Incorrect Feedback
1st	
	Correct Feedback
Global Incorrect Feedback	
	The correct answer is: -2.

Question 21 of 25 (90801)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	3
Question:	Which answer is equal to the product in the expression below?
	$(3x^2 - 2x)(2x^2 + 3x - 1)$

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	Choice	Feedback
Α.	$6x^4 + 5x^3 - 3x^2 + 2x$	
в.	$5x^4 + 2x^3 - 8x^2 + 2x$	
c.	$6x^4 + 5x^3 - 9x^2 - 2x$	
*D.	$6x^4 + 5x^3 - 9x^2 + 2x$	

Global Incorrect Feedback The correct answer is: $6x^4 + 5x^3 - 9x^2 + 2x$.

Question 22 of 25 (284781)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	3
Question:	Which answer is equal to the product in the expression below?

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

	Choice	Feedback
Α.	$6x^4 + 5x^3 - 8x^2 + 3x$	
*B.	$6x^4 - 5x^3 - 8x^2 + 3x$	
C.	5 <i>x</i> ⁴ - 5 <i>x</i> ³ - 7 <i>x</i> ² - 3 <i>x</i>	
D.	6 <i>x</i> ⁴ - 5 <i>x</i> ³ - 8 <i>x</i> ² - 3 <i>x</i>	

Global Incorrect Feedback The correct answer is: $6x^4 - 5x^3 - 8x^2 + 3x$.

Question 23 of 25 (90802)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	3
Question:	When calculated, the two products given below are equal.

	Choice	Feedback
*A.	True	
В.	False	

Global Incorrect Feedback The correct answer is: True. Preview

Question 24 of 25 (284783)

Maximum Attempts:		
Question Type:		
Maximum Score:		
Question:		

1 True-False 3

When calculated, the two products given below are equal.

 $x^{2} + 4x^{2} + 5x + 2$ $x^{2} + 2x + 1$ x + 2 $x - x^{2} + 4x - 4$

	Choice	Feedback
*A.	True	
В.	False	

Global Incorrect Feedback

The correct answer is: True.

Question 25 of 25 (90808)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	3
Question:	Which answer is equal to the product in the expression below?

(3x - 5)(3x + 5)

	Choice	Feedback
Α.	6 <i>x</i> - 25	
в.	9 <i>x</i> ² - 30 <i>x</i> - 25	
c.	9 <i>x</i> ² - 15 <i>x</i> - 25	
*D.	9 <i>x</i> ² - 25	

Global Incorrect Feedback

The correct answer is: $9x^2 - 25$.