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. | $3 x^{2}$ |
| *B. | $-x^{9}$ |
| C. | $2 x^{-1}$ |
| *D. | 16 |
| E. | $x^{2}-2$ |
| F. | $\sqrt{ } / 2$ |


| Attempt | Incorrect Feedback |
| :--- | :--- |
| 1 st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answers are: $3 x^{2},-x^{9}$, 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:

|  | Choice |
| :--- | :--- |
| A. |  |
| B. | $9 x^{2}-2$ |
| *C. | $3 x^{10}$ |
| *D. | 16 |
| *E. | $2 x$ |
| F. | $5 x^{-1}$ |


| Attempt | Incorrect Feedback |
| :--- | :--- |
| 1st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answers are: $3 x^{10}, 16$, and $2 x$. |

Question 3 of $\mathbf{2 5 ( 9 0 7 9 2 )}$

Maximum Attempts: 1
Question Type:
Maximum Score:
Question:
3

Multiple Response

Which of the expressions are not polynomials? Check all that apply.

Correct Answers:

|  | Choice |
| :--- | :--- |
| *A. | $v^{2}-\bar{i}$ |
| B. | $4-3 x+5 x^{6}$ |
| *C. | $5 x^{1 / 2}+4 x^{2}$ |
| D. | $14 x^{7}$ |
| *E. | $\frac{x^{2}-x-1}{2+z}$ |
| F. | $8 x^{10}+2 x^{5}$ |


| Attempt | Incorrect Feedback |
| :--- | :--- |
| 1 st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


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

Question 4 of 25 ( 284763 )
Maximum Attempts: 1
Question Type:
Maximum Score:
Question:

Multiple Response
3
Which of the expressions are not polynomials? Check all that apply.

## Correct Answers:

|  | Choice |
| :--- | :--- |
| A. | $5 x^{5}$ |
| *B. | $5 x^{-1}+4 x^{-2}$ |
| C. | $x^{5}+2$ |
| *D. |  |
| *E. | $x^{2}+\quad+4$ |
| F. | $8 x^{10}+2 x^{5}$ |


| Attempt | Incorrect Feedback |
| :--- | :--- |
| 1 st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answers are: $5 x^{-1}+4 x^{-2}$, |
|  | and $x^{2}+\quad+4$. |

Question 5 of 25 (90793)


Question 6 of 25 (284765)
Maximum Attempts: 1
Question Type: T
Maximum Score: 3
Is Case Sensitive: false
Correct Answer: 9
Question: What is the degree of the polynomial in the expression below?
$x^{5}+1-3 x^{4}+3 x^{9}-2 x$

| Attempt | Incorrect Feedback |
| :--- | :--- |
| 1 st |  |


|  | 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?
$x^{6}+3-2 x^{2}+4 x^{7}-4 x$

| Attempt | Incorrect Feedback |
| :--- | :--- |
| 1 st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: -2. |

Question 8 of 25 (284767)
Maximum Attempts: 1

Question Type:
Maximum Score:
Is Case Sensitive:
Correct Answer:
Question:

Text Fill In Blank
3
false
5
What is the coefficient of the term of degree 7 in the polynomial below?
$2 x^{6}+2-4 x^{2}+5 x^{7}-4 x$

| Attempt | Incorrect Feedback |
| :--- | :--- |
| 1 st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: 5. |

## Question 9 of 25 ( 90795 )

Maximum Attempts: 1
Question Type: Multiple Choice

Maximum Score:
Question:
3
Which answer is equal to the sum in the expression below?
$\left(3 x^{3}+4 x^{2}-2 x+1\right)+\left(x^{4}-x^{3}+5 x^{2}+2 x+3\right)$

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | $x^{4}+2 x^{3}+9 x^{2}+$ <br> $4 x+4$ |  |
| B. | $x^{4}+4 x^{3}+9 x^{2}+$ <br> 4 |  |
| C. | $x^{4}+2 x^{3}+9 x^{2}-$ <br> $4 x+4$ |  |
| *D. | $x^{4}+2 x^{3}+9 x^{2}+$ <br> 4 |  |

## Question 10 of 25 (284769)

Maximum Attempts: 1
Question Type:
Multiple Choice
Maximum Score:

Question:
Which answer is equal to the sum in the expression below?
$\left(4 x^{3}+2 x^{2}-x+2\right)+\left(2 x^{4}-3 x^{3}+5 x^{2}+6 x+3\right)$

|  | Choice | Feedback |
| :--- | :--- | :--- |
| *A. | $2 x^{4}+x^{3}+7 x^{2}+$ <br> $5 x+5$ |  |
| B. | $2 x^{4}+x^{3}+7 x^{2}+$ <br> 5 |  |
| C. | $2 x^{4}+x^{3}+7 x^{2}-$ <br> $5 x+5$ |  |
| D. | $2 x^{4}+2 x^{3}+7 x^{2}$ <br> $+5 x+5$ |  |

Question 11 of 25 (90796)
Maximum Attempts: 1
Question Type:
True-False
Maximum Score:
Question:
3
When calculated, the sums in the expressions below are equal.

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | True |  |
| *B. | False |  |

## Global Incorrect Feedback

The correct answer is: False.

## Question 12 of 25 (284771)

Maximum Attempts: 1
Question Type:
Maximum Score:
True-False

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


|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | True |  |
| *B. | False |  |


| Global Incorrect Feedback |
| :--- |
| The correct answer is: False. |

## Question 13 of 25 ( 90797 )

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

$$
\left(3 x^{3}-4 x^{2}+x-2\right)-\left(x^{3}-5 x^{2}+3 x+2\right)
$$

|  | Choice | Feedback |
| :--- | :--- | :--- |
| *A..$2 x^{3}+x^{2}-2 x$ <br> -4 |  |  |
| B. | $2 x^{3}-9 x^{2}-$ <br> $2 x-4$ |  |
| C. | $2 x^{3}+x^{2}+$ <br> $4 x-4$ |  |
| D. | $2 x^{3}+x^{2}-2 x$ |  |

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?

$$
\left(2 x^{3}-6 x^{2}+2 x-2\right)-\left(-2 x^{3}-3 x^{2}+3 x+3\right)
$$

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | $4 x^{3}-3 x^{2}-5$ |  |
| B. | $4 x^{3}-3 x^{2}+x$ <br> -5 |  |
| C. | $4 x^{3}+9 x^{2}+$ <br> $x-5$ |  |
| *D. | $4 x^{3}-3 x^{2}-x$ <br> -5 |  |

## Global Incorrect Feedback

The correct answer is: $4 x^{3}-3 x^{2}-x-5$.

## 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.


|  | Choice | Feedback |
| :--- | :--- | :--- |
| *A. | True |  |
| B. | 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 |
| :--- | :--- | :--- |
| A. | True |  |
| *B. | 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?

|  |
| :---: |
|  |  |


|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | Answer <br> A |  |
| *B. | Answer <br> B |  |
| C. | Answer <br> C |  |

## Question 18 of 25 (284777)

Maximum Attempts: 1
Question Type:
Maximum Score:

Question:
Multiple Choice
3
Which answer shows the FOIL method used to expand the product below?


```
E.30三-3x\bullet4-2•3x+20-2
```



|  | Choice | Feedback |
| :--- | :--- | :--- |
| *A. | Answer <br> A |  |
| B. | Answer <br> B |  |
| C. | Answer <br> C |  |

Question 19 of 25 (90800)
Maximum Attempts: 1

Question Type:
Maximum Score:
Is Case Sensitive:
Correct Answer:
Question:

Text Fill In Blank
3
false
-10
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 |
| :--- | :--- |
| 1 st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is -10. |

## Question 20 of 25 (28479)

Maximum Attempts: 1

Question Type:
Maximum Score:
Is Case Sensitive:
Correct Answer:
Question:

Text Fill In Blank
3
false
-2
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 |
| :--- | :--- |
| 1 st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: -2. |

## Question 21 of 25 ( 90801 )

Maximum Attempts: 1

Question Type:
Maximum Score:
Question:

Multiple Choice
3
Which answer is equal to the product in the expression below?
$\left(3 x^{2}-2 x\right)\left(2 x^{2}+3 x-1\right)$

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | $6 x^{4}+5 x^{3}-$ <br> $3 x^{2}+2 x$ |  |
| B. | $5 x^{4}+2 x^{3}-$ <br> $8 x^{2}+2 x$ |  |
| C. | $6 x^{4}+5 x^{3}-$ <br> $9 x^{2}-2 x$ |  |
| *D. | $6 x^{4}+5 x^{3}-$ <br> $9 x^{2}+2 x$ |  |

## Global Incorrect Feedback

The correct answer is: $6 x^{4}+5 x^{3}-9 x^{2}+2 x$.

## Question 22 of 25 (284781)

Maximum Attempts: 1
Question Type:
Maximum Score: Question:

3

Multiple Choice

Which answer is equal to the product in the expression below?
$\left(2 x^{2}-3 x\right)\left(3 x^{2}+2 x-1\right)$

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | $6 x^{4}+5 x^{3}-$ <br> $8 x^{2}+3 x$ |  |
| *B. | $6 x^{4}-5 x^{3}-8 x^{2}$ <br> $+3 x$ |  |
| C. | $5 x^{4}-5 x^{3}-7 x^{2}$ <br> $-3 x$ |  |
| D. | $6 x^{4}-5 x^{3}-8 x^{2}$ <br> $-3 x$ |  |

The correct answer is: $6 x^{4}-5 x^{3}-8 x^{2}+3 x$.

## Question 23 of 25 (90802)

Maximum Attempts: 1
Question Type:
Maximum Score:
True-False

Question:
When calculated, the two products given below are equal.

|  | Choice | Feedback |
| :--- | :--- | :--- |
| *A. | True |  |
| B. | False |  |

## Question 24 of 25 (284783)

Maximum Attempts: 1

Question Type:
Maximum Score:
Question:

True-False
3
When calculated, the two products given below are equal.

|  | Choice | Feedback |
| :--- | :--- | :--- |
| *A. | True |  |
| B. | False |  |

Global Incorrect Feedback
The correct answer is: True.

Question 25 of 25 (90808)
Maximum Attempts: 1
Question Type:
Multiple Choice
Maximum Score:
Question:
Which answer is equal to the product in the expression below?
$(3 x-5)(3 x+5)$

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | $6 x-25$ |  |
| B. | $9 x^{2}-30 x-$ <br> 25 |  |
| C. | $9 x^{2}-15 x-$ <br> 25 |  |
| *D. | $9 x^{2}-25$ |  |


| Global Incorrect Feedback |
| :--- |
| The correct answer is: $9 x^{2}-25$. |

