

PREVIEW

CLOSE

## Quiz: Polynomial Multiplication

**Question 1a of 11** ( 3 Using a table to compute the product of two polynomials 91094 )**Maximum Attempts:** 1**Question Type:** Multiple Choice**Maximum Score:** 2**Question:** Use a table to compute the product below:

$$(8x^2 - 2x - 5)(2x + 7)$$

	Choice	Feedback
<b>*A.</b>	$16x^3 + 52x^2 - 24x - 35$	
<b>B.</b>	$16x^3 + 60x^2 - 24x - 35$	
<b>C.</b>	$16x^3 - 52x^2 + 24x + 35$	
<b>D.</b>	$16x^3 + 52x^2 - 35$	

**Global Incorrect Feedback**The correct answer is:  $16x^3 + 52x^2 - 24x - 35$ .**Question 1b of 11** ( 3 Using a table to compute the product of two polynomials 284189 )**Maximum Attempts:** 1**Question Type:** Multiple Choice**Maximum Score:** 2**Question:** Use a table to compute the product below:

$$(7x^2 - x - 5)(2x + 8)$$

	Choice	Feedback
<b>A.</b>	$14x^3 + 58x^2 - 18x - 40$	
<b>*B.</b>	$14x^3 + 54x^2 - 18x - 40$	
<b>C.</b>	$14x^3 - 54x^2 + 18x + 40$	
<b>D.</b>	$14x^3 - 54x^2 + 18x - 40$	

**Global Incorrect Feedback**The correct answer is:  $14x^3 + 54x^2 - 18x - 40$ .**Question 1c of 11** ( 3 Using a table to compute the product of two polynomials 284190 )**Maximum Attempts:** 1**Question Type:** Multiple Choice**Maximum Score:** 2**Question:** Use a table to compute the product below:

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

	Choice	Feedback
A.	$18x^3 + 27x^2 - 36x + 36$	
B.	$18x^3 - 45x^2 - 36$	
C.	$18x^3 - 45x^2 - 36x - 36$	
*D.	$18x^3 + 27x^2 - 36x - 36$	

**Global Incorrect Feedback**The correct answer is:  $18x^3 + 27x^2 - 36x - 36$ .**Question 2a of 11** ( 3 Using a table to compute the product of two polynomials 91095 )**Maximum Attempts:**

1

**Question Type:**

Multiple Choice

**Maximum Score:**

2

**Question:**

Use a table to compute the product below:

$$(7x^2 - 4x - 7)(2x + 8)$$

	Choice	Feedback
A.	$14x^3 + 48x^2 - 56$	
B.	$14x^3 - 48x^2 + 46x + 56$	
*C.	$14x^3 + 48x^2 - 46x - 56$	
D.	$14x^3 + 64x^2 - 46x - 56$	

**Global Incorrect Feedback**The correct answer is:  $14x^3 + 48x^2 - 46x - 56$ .**Question 2b of 11** ( 3 Using a table to compute the product of two polynomials 284191 )**Maximum Attempts:**

1

**Question Type:**

Multiple Choice

**Maximum Score:**

2

**Question:**

Use a table to compute the product below:

$$(5x^2 - 2x - 5)(3x + 9)$$

	Choice	Feedback
*A.	$15x^3 + 39x^2 - 33x - 45$	
B.	$15x^3 - 39x^2 - 33x - 45$	
C.	$15x^3 + 39x^2 - 45$	
D.	$15x^3 + 45x^2 + 33x + 45$	

**Global Incorrect Feedback**The correct answer is:  $15x^3 + 39x^2 - 33x - 45$ .

**Question 2c of 11** ( 3 Using a table to compute the product of two polynomials 284192 )**Maximum Attempts:** 1**Question Type:** Multiple Choice**Maximum Score:** 2**Question:** Use a table to compute the product below:

$$(8x^2 - 3x - 6)(x + 10)$$

	Choice	Feedback
A.	$8x^3 + 77x^2 - 60$	
B.	$8x^3 - 77x^2 + 36x + 60$	
C.	$8x^3 + 80x^2 - 36x - 60$	
*D.	$8x^3 + 77x^2 - 36x - 60$	

**Global Incorrect Feedback**The correct answer is:  $8x^3 + 77x^2 - 36x - 60$ .**Question 3a of 11** ( 3 Using a table to compute the product of two polynomials 91096 )**Maximum Attempts:** 1**Question Type:** Multiple Choice**Maximum Score:** 2**Question:** Use a table to compute the product below:

$$(3x^2 + 6x + 9)(8x - 4)$$

	Choice	Feedback
A.	$24x^3 + 36x^2 + 48x + 36$	
B.	$24x^3 + 36x^2 + 68x - 36$	
C.	$24x^3 + 48x^2 + 48x - 36$	
*D.	$24x^3 + 36x^2 + 48x - 36$	

**Global Incorrect Feedback**The correct answer is:  $24x^3 + 36x^2 + 48x - 36$ .**Question 3b of 11** ( 3 Using a table to compute the product of two polynomials 284193 )**Maximum Attempts:** 1**Question Type:** Multiple Choice**Maximum Score:** 2**Question:** Use a table to compute the product below:

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

	Choice	Feedback
A.	$14x^3 + 29x^2 + 20x + 15$	
*B.	$14x^3 + 29x^2 + 20x - 15$	
C.	$14x^3 + 41x^2 + 20x - 15$	
D.	$14x^3 + 29x^2 + 40x - 15$	

**Global Incorrect Feedback**The correct answer is:  $14x^3 + 29x^2 + 20x + 15$ .**Question 3c of 11** ( 3 Using a table to compute the product of two polynomials 284194 )**Maximum Attempts:**

1

**Question Type:**

Multiple Choice

**Maximum Score:**

2

**Question:**

Use a table to compute the product below:

$$(2x^2 + 5x + 3)(4x - 8)$$

	Choice	Feedback
A.	$8x^3 + 4x^2 - 28x + 24$	
B.	$8x^3 + 36x^2 - 28x - 24$	
*C.	$8x^3 + 4x^2 - 28x - 24$	
D.	$8x^3 + 4x^2 - 52x - 24$	

**Global Incorrect Feedback**The correct answer is:  $8x^3 + 4x^2 - 28x - 24$ .**Question 4a of 11** ( 3 Using a table to compute the product of two polynomials 91097 )**Maximum Attempts:**

1

**Question Type:**

Multiple Choice

**Maximum Score:**

2

**Question:**

Use a table to compute the product below:

$$(x^2 + x + 9)(x - 6)$$

	Choice	Feedback
*A.	$x^3 - 5x^2 + 3x - 54$	
B.	$x^3 - 5x^2 - 3x - 54$	
C.	$x^3 - 7x^2 + 3x - 54$	
D.	$x^3 - 6x^2 + 3x - 54$	

**Global Incorrect Feedback**The correct answer is:  $x^3 - 5x^2 + 3x - 54$ .**Question 4b of 11** ( 3 Using a table to compute the product of two polynomials 284195 )**Maximum Attempts:**

1

**Question Type:**

Multiple Choice

**Maximum Score:**

2

**Question:**

Use a table to compute the product below:

$$(x^2 + x + 8)(x - 5)$$

	Choice	Feedback
A.	$x^3 - 6x^2 + 3x - 40$	
B.	$x^3 - 6x^2 - 3x - 40$	
*C.	$x^3 - 4x^2 + 3x - 40$	
D.	$x^3 - 3x^2 + 3x - 40$	

Global Incorrect Feedback
The correct answer is: $x^3 - 4x^2 + 3x - 40$ .

**Question 4c of 11** ( 3 Using a table to compute the product of two polynomials 284196 )

**Maximum Attempts:** 1  
**Question Type:** Multiple Choice  
**Maximum Score:** 2  
**Question:** Use a table to compute the product below:

$$(x^2 + x + 7)(x - 9)$$

	Choice	Feedback
A.	$x^3 - 10x^2 - 2x - 63$	
B.	$x^3 - 11x^2 - 2x - 63$	
*C.	$x^3 - 8x^2 - 2x - 63$	
D.	$x^3 - 7x^2 - 2x - 63$	

Global Incorrect Feedback
The correct answer is: $x^3 - 8x^2 - 2x - 63$ .

**Question 5a of 11** ( 3 Using a table to compute the product of two polynomials 91098 )

**Maximum Attempts:** 1  
**Question Type:** Multiple Choice  
**Maximum Score:** 2  
**Question:** Use a table to compute the product below:

$$(4x^2 - 5x - 4)(6x + 9)$$

	Choice	Feedback
A.	$24x^3 + 66x^2 - 69x - 36$	
B.	$24x^3 - 6x^2 + 69x + 36$	
C.	$24x^3 + 6x^2 - 36$	
*D.	$24x^3 + 6x^2 - 69x - 36$	

Global Incorrect Feedback
The correct answer is: $24x^3 + 6x^2 - 69x - 36$ .

**Question 5b of 11** ( 3 Using a table to compute the product of two polynomials 284197 )**Maximum Attempts:** 1**Question Type:** Multiple Choice**Maximum Score:** 2**Question:** Use a table to compute the product below:

$$(3x^2 - 6x - 3)(7x + 8)$$

	Choice	Feedback
A.	$21x^3 - 69x - 24$	
*B.	$21x^3 - 18x^2 - 69x - 24$	
C.	$21x^3 - 66x^2 - 69x - 24$	
D.	$21x^3 + 18x^2 - 69x + 24$	

**Global Incorrect Feedback**The correct answer is:  $21x^3 - 18x^2 - 69x - 24$ .**Question 5c of 11** ( 3 Using a table to compute the product of two polynomials 284198 )**Maximum Attempts:** 1**Question Type:** Multiple Choice**Maximum Score:** 2**Question:** Use a table to compute the product below:

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

	Choice	Feedback
*A.	$20x^3 + 19x^2 - 48x - 35$	
B.	$20x^3 - 51x^2 - 48x - 35$	
C.	$20x^3 - 19x^2 - 48x - 35$	
D.	$20x^3 + 19x^2 - 8x - 35$	

**Global Incorrect Feedback**The correct answer is:  $20x^3 + 19x^2 - 48x - 35$ .**Question 6a of 11** ( 3 Using a table to compute the product of two polynomials 91099 )**Maximum Attempts:** 1**Question Type:** Multiple Choice**Maximum Score:** 2**Question:** Use a table to compute the product below.

$$(8x^2 - 4x + 6)(5x + 5)$$

	Choice	Feedback
A.	$40x^3 + 20x^2 - 50x + 30$	
*B.	$40x^3 + 20x^2 + 10x + 30$	
C.	$40x^3 + 20x^2 - 30$	
D.	$40x^3 + 60x^2 - 50x - 30$	

**Global Incorrect Feedback**The correct answer is:  $40x^3 + 20x^2 + 10x + 30$ .**Question 6b of 11** ( 3 Using a table to compute the product of two polynomials 284199 )**Maximum Attempts:**

1

**Question Type:**

Multiple Choice

**Maximum Score:**

2

**Question:**

Use a table to compute the product below:

$$(10x^2 - 6x + 8)(2x + 2)$$

	Choice	Feedback
A.	$20x^3 + 8x^2 - 24x + 16$	
B.	$20x^3 + 4x + 16$	
*C.	$20x^3 + 8x^2 + 4x + 16$	
D.	$20x^3 + 32x^2 + 4x + 16$	

**Global Incorrect Feedback**The correct answer is:  $20x^3 + 8x^2 + 4x + 16$ .**Question 6c of 11** ( 3 Using a table to compute the product of two polynomials 284200 )**Maximum Attempts:**

1

**Question Type:**

Multiple Choice

**Maximum Score:**

2

**Question:**

Use a table to compute the product below:

$$(5x^2 - 6x + 8)(3x + 3)$$

	Choice	Feedback
A.	$15x^3 - 33x^2 + 6x + 24$	
B.	$15x^3 + 3x^2 + 34x + 24$	
C.	$15x^3 - 3x^2 + 24$	
*D.	$15x^3 - 3x^2 + 6x + 24$	

**Global Incorrect Feedback**The correct answer is:  $15x^3 - 3x^2 + 6x + 24$ .**Question 7a of 11** ( 3 Using a table to compute the product of two polynomials 91100 )**Maximum Attempts:**

1

**Question Type:**

Multiple Choice

**Maximum Score:**

2

**Question:**

Use a table to compute the product below:

$$(6x^2 - 2x - 6)(8x^2 + 7x + 8)$$

	Choice	Feedback
<b>*A.</b>	$48x^4 + 26x^3 - 14x^2 - 58x - 48$	
<b>B.</b>	$48x^4 + 26x^3 + 14x^2 - 58x - 48$	
<b>C.</b>	$48x^4 + 26x^3 - 14x^2 - 58x + 48$	
<b>D.</b>	$48x^4 + 26x^3 - 62x^2 - 23x - 48$	

Global Incorrect Feedback
The correct answer is: $48x^4 + 26x^3 - 14x^2 - 58x - 48.$

**Question 7b of 11** ( 3 Using a table to compute the product of two polynomials 284201 )

**Maximum Attempts:** 1  
**Question Type:** Multiple Choice  
**Maximum Score:** 2  
**Question:** Use a table to compute the product below:

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

	Choice	Feedback
<b>A.</b>	$30x^4 + 7x^3 + 15x^2 - 7x - 30$	
<b>B.</b>	$30x^4 + 7x^3 - 15x^2 + 43x - 30$	
<b>C.</b>	$30x^4 + 7x^3 - 45x^2 - 43x - 30$	
<b>*D.</b>	$30x^4 + 7x^3 - 15x^2 - 43x - 30$	

Global Incorrect Feedback
The correct answer is: $30x^4 + 7x^3 - 15x^2 - 43x - 30.$

**Question 7c of 11** ( 3 Using a table to compute the product of two polynomials 284202 )

**Maximum Attempts:** 1  
**Question Type:** Multiple Choice  
**Maximum Score:** 2  
**Question:** Use a table to compute the product below:

$$(4x^2 - 2x - 4)(7x^2 + 8x + 7)$$

	Choice	Feedback
<b>A.</b>	$28x^4 + 32x^3 - 16x^2 - 46x - 28$	
<b>*B.</b>	$28x^4 + 18x^3 - 16x^2 - 46x - 28$	
<b>C.</b>	$28x^4 + 18x^3 + 16x^2 - 46x - 28$	
<b>D.</b>	$28x^4 + 18x^3 - 16x^2 - 18x - 28$	

Global Incorrect Feedback
The correct answer is: $28x^4 + 18x^3 - 16x^2 - 46x - 28.$



**Question 8a of 11** ( 3 Using a table to compute the product of two polynomials 91101 )**Maximum Attempts:** 1**Question Type:** Multiple Choice**Maximum Score:** 2**Question:** Use a table to compute the product below:

$$(3x^2 - 2x - 7)(9x^2 + 8x + 6)$$

	Choice	Feedback
A.	$27x^4 + 6x^3 - 79x^2 - 68x - 42$	
B.	$27x^4 + 6x^3 - 61x^2 - 68x + 42$	
C.	$27x^4 + 6x^3 + 61x^2 - 12x - 42$	
*D.	$27x^4 + 6x^3 - 61x^2 - 68x - 42$	

**Global Incorrect Feedback**

The correct answer is:  
 $27x^4 + 6x^3 - 61x^2 - 68x - 42.$

**Question 8b of 11** ( 3 Using a table to compute the product of two polynomials 284203 )**Maximum Attempts:** 1**Question Type:** Multiple Choice**Maximum Score:** 2**Question:** Use a table to compute the product below:

$$(2x^2 - x - 8)(7x^2 + 9x + 5)$$

	Choice	Feedback
A.	$14x^4 + 11x^3 + 55x^2 - 77x - 40$	
B.	$14x^4 + 11x^3 - 46x^2 - 77x - 40$	
*C.	$14x^4 + 11x^3 - 55x^2 - 77x - 40$	
D.	$14x^4 + 11x^3 + 55x^2 - 67x - 40$	

**Global Incorrect Feedback**

The correct answer is:  
 $14x^4 + 11x^3 - 55x^2 - 77x - 40.$

**Question 8c of 11** ( 3 Using a table to compute the product of two polynomials 284204 )**Maximum Attempts:** 1**Question Type:** Multiple Choice**Maximum Score:** 2**Question:** Use a table to compute the product below:

$$(5x^2 - 4x - 1)(7x^2 + 9x + 8)$$

	Choice	Feedback
<b>*A.</b>	$35x^4 + 17x^3 - 3x^2 - 41x - 8$	
<b>B.</b>	$35x^4 + 17x^3 + 3x^2 - 23x - 8$	
<b>C.</b>	$35x^4 + 17x^3 - 83x^2 - 41x - 8$	
<b>D.</b>	$35x^4 + 17x^3 - 3x^2 + 41x - 8$	

Global Incorrect Feedback
The correct answer is: $35x^4 + 17x^3 - 3x^2 - 41x - 8.$

**Question 9a of 11** ( 3 Using a table to compute the product of two polynomials 120302 )

**Maximum Attempts:** 1  
**Question Type:** Text Fill In Blank  
**Maximum Score:** 2  
**Is Case Sensitive:** false  
**Correct Answer:**  $x^7-x, 1x^7-1x, 1x^7-1x^1, x^7-x^1$

**Question:** Use the table below to find the products of the two polynomials. Enter your answer in descending order in the box below. Enter exponents using the caret ( ^ ). For example, you would enter  $4x^2$  as  $4x^2$ .

$$(x^5 + x^3 + x)(x^2 - 1)$$

	$x^5$	$x^3$	$x$
$x^2$			
$-1$			

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: $x^7 - x.$

**Question 9b of 11** ( 3 Using a table to compute the product of two polynomials 284205 )

**Maximum Attempts:** 1  
**Question Type:** Text Fill In Blank  
**Maximum Score:** 2  
**Is Case Sensitive:** false  
**Correct Answer:**  $x^8-x^2$ ,  $1x^8-x^2$ ,  $x^8-1x^2$ ,  $1x^8-1x^2$

**Question:** Use the table below to find the products of the two polynomials. Enter your answer in descending order in the box below. Enter exponents using the caret ( ^ ). For example, you would enter  $4x^2$  as  $4x^2$ .

$$(x^6 + x^4 + x^2)(x^2 - 1)$$

	$x^6$	$x^4$	$x^2$
$x^2$			
-1			

Attempt	Incorrect Feedback
1st	
	<b>Correct Feedback</b>
	<b>Global Incorrect Feedback</b>
	The correct answer is: $x^8 - x^2$ .

**Question 9c of 11** ( 3 Using a table to compute the product of two polynomials 284206 )

**Maximum Attempts:** 1  
**Question Type:** Text Fill In Blank  
**Maximum Score:** 2  
**Is Case Sensitive:** false  
**Correct Answer:**  $x^{10}-x$ ,  $1x^{10}-1x$ ,  $1x^{10}-1x^1$ ,  $x^{10}-x^1$

**Question:** Use the table below to find the products of the two polynomials. Enter your answer in descending order in the box below. Enter exponents using the caret ( ^ ). For example, you would enter  $4x^2$  as  $4x^2$ .

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

Attempt	Incorrect Feedback
1st	
	<b>Correct Feedback</b>
	<b>Global Incorrect Feedback</b>
	The correct answer is: $x^{10} - x$ .

**Question 10a of 11** ( 3 Using a table to compute the product of two polynomials 120309 )

**Maximum Attempts:** 1

**Question Type:** Text Fill In Blank

**Maximum Score:** 2

**Is Case Sensitive:** false

**Correct Answer:**  $x^6+2x^5-3x^4-5x^3+6x^2+6x-6$ ,  $1x^6+2x^5-3x^4-5x^3+6x^2+6x-6$ ,  $x^6+2x^5-3x^4-5x^3+6x^2+6x^1-6$ ,  $1x^6+2x^5-3x^4-5x^3+6x^2+6x^1-6$

**Question:** Use the table below to find the products of the two polynomials. Enter your answer in descending order in the box below. Enter exponents using the caret ( ^ ). For example, you would enter  $4x^2$  as  $4x^2$ . Do *not* enter spaces in your answer.

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

	$x^3$	$2x^2$	$-2$
$x^3$			
$-3x$			
$3$			

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: $x^6 + 2x^5 - 3x^4 - 5x^3 + 6x^2 + 6x - 6$ .

**Question 10b of 11** ( 3 Using a table to compute the product of two polynomials 284207 )

**Maximum Attempts:** 1

**Question Type:** Text Fill In Blank

**Maximum Score:** 2

**Is Case Sensitive:** false

**Correct Answer:**  $x^6+3x^5-2x^4-3x^3+12x^2+2x-4$ ,  $1x^6+3x^5-2x^4-3x^3+12x^2+2x-4$ ,  $x^6+3x^5-2x^4-3x^3+12x^2+2x^1-4$ ,  $1x^6+3x^5-2x^4-3x^3+12x^2+2x^1-4$

**Question:** Use the table below to find the products of the two polynomials. Enter your answer in descending order in the box below. Enter exponents using the caret ( ^ ). For example, you would enter  $4x^2$  as  $4x^2$ . Do *not* enter spaces in your answer.

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

Attempt	Incorrect Feedback
1st	

	<b>Correct Feedback</b>
	<b>Global Incorrect Feedback</b>
	The correct answer is: $x^6 + 3x^5 - 2x^4 - 3x^3 + 12x^2 + 2x - 4.$

### Question 10c of 11 ( 3 Using a table to compute the product of two polynomials 284208 )

**Maximum Attempts:** 1

**Question Type:** Text Fill In Blank

**Maximum Score:** 2

**Is Case Sensitive:** false

**Correct Answer:**  $x^6+x^5-2x^4-2x^3+3x^2+6x-9$ ,  $1x^6+1x^5-2x^4-2x^3+3x^2+6x-9$ ,  $x^6+x^5-2x^4-2x^3+3x^2+6x^1-9$ ,  $1x^6+1x^5-2x^4-2x^3+3x^2+6x^1-9$

**Question:** Use the table below to find the products of the two polynomials. Enter your answer in descending order in the box below. Enter exponents using the caret ( ^ ). For example, you would enter  $x^2$  as  $4x^2$ . Do not enter spaces in your answer.

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

	$x^3$	$x^2$	$-3$
$x^3$			
$-2x$			
$3$			

<b>Attempt</b>	<b>Incorrect Feedback</b>
1st	
	<b>Correct Feedback</b>
	<b>Global Incorrect Feedback</b>
	The correct answer is: $x^6 + x^5 - 2x^4 - 2x^3 + 3x^2 + 6x - 9.$

### Question 11a of 11 ( 3 Using a table to compute the product of two polynomials 120301 )

**Maximum Attempts:** 1

**Question Type:** Text Fill In Blank

**Maximum Score:** 2

**Is Case Sensitive:** false

**Correct Answer:** term, terms

**Question:** To find the product of two polynomials, multiply the top polynomial by each \_\_\_\_\_ of the bottom polynomial.

<b>Attempt</b>	<b>Incorrect Feedback</b>
1st	
	<b>Correct Feedback</b>
	<b>Global Incorrect Feedback</b>
	The correct answer is: term.

**Question 11b of 11** ( 3 Using a table to compute the product of two polynomials 284209 )

**Maximum Attempts:** 1  
**Question Type:** Text Fill In Blank  
**Maximum Score:** 2  
**Is Case Sensitive:** false  
**Correct Answer:** term, terms

**Question:** To find the product of two polynomials, multiply the top polynomial by each \_\_\_\_\_ of the bottom polynomial.

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: term.

**Question 11c of 11** ( 3 Using a table to compute the product of two polynomials 284210 )

**Maximum Attempts:** 1  
**Question Type:** Text Fill In Blank  
**Maximum Score:** 2  
**Is Case Sensitive:** false  
**Correct Answer:** term, terms

**Question:** To find the product of two polynomials, multiply the top polynomial by each \_\_\_\_\_ of the bottom polynomial.

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: term.