PREVIEW   CLOSE

Quiz: Finding GCFs of Polynomials

Question 1a of 8 (2 Identifying the greatest common factor (GCF) in a polynomial 91016)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	3x, x3, 3x^1, 3*x, x*3, 3*x^1
Question:	What is the greatest common factor of the terms of the polynomial below?

$$3x^4 + 18x$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 3x.

Question 1b of 8 (2 Identifying the greatest common factor (GCF) in a polynomial 294955)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	4x, x4, 4x^1, 4*x, x*4, 4*x^1
Question:	What is the greatest common factor of the terms of the polynomial below?

$$4x^4 + 16x$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 4x.

Question 1c of 8 (2 Identifying the greatest common factor (GCF) in a polynomial 294956)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	5x, x5, 5x^1, 5*x, x*5, 5*x^1
Question:	What is the greatest common factor of the terms of the polynomial below?

$$5x^4 + 15x$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 5x.

Question 2a of 8 (2 Identifying the greatest common factor (GCF) in a polynomial 91017)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	2x^3, 2*x^3, x^3*2
Question:	What is the greatest common factor of the terms of the polynomial below? Use the caret symbol (^) to write exponents; for example, enter x^2 as x^2.

$$14x^5 + 10x^3$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 2x^3.

Question 2b of 8 (2 Identifying the greatest common factor (GCF) in a polynomial 294957)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	2x^3, 2*x^3, x^3*2
Question:	What is the greatest common factor of the terms of the polynomial below? Use the caret symbol (^) to write exponents; for example, enter x^2 as x^2.

$$14x^5 + 6x^3$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 2x^3.

Question 2c of 8 (2 Identifying the greatest common factor (GCF) in a polynomial 294958)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	7x^3, 7*x^3, x^3*7
Question:	What is the greatest common factor of the terms of the polynomial below? Use the caret symbol (^) to write exponents; for example, enter x^2 as x^2.

$$14x^5 + 7x^3$$

Attempt	Incorrect Feedback
1st	

Correct Feedback

Global Incorrect Feedback
The correct answer is: $7x^3$.

Question 3a of 8 (3 Using the grouping method to factor one or more GCFs out of a polynomial 91018)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	6x(x^4+6x+4), (x^4+6x+4)6x, 6x*(x^4+6x+4), (x^4+6x+4)*6x, (6x)(x^4+6x+4), (x^4+6x+4)(6x), (6x)*(x^4+6x+4), (x^4+6x+4)*(6x), 6x(1x^4+6x+4), (1x^4+6x+4)6x, 6x*(1x^4+6x+4), (1x^4+6x+4)*6x, (6x)(1x^4+6x+4), (1x^4+6x+4)(6x), (6x)*(1x^4+6x+4), (1x^4+6x+4)*(6x), 6x^1(x^4+6x^1+4), (x^4+6x^1+4)6x^1, 6x^1*(x^4+6x^1+4), (x^4+6x^1+4)*6x^1, (6x^1)(x^4+6x^1+4), (x^4+6x^1+4)(6x^1), (6x^1)*(x^4+6x^1+4), (x^4+6x^1+4)*(6x^1), 6x^1(1x^4+6x^1+4), (1x^4+6x^1+4)6x^1, 6x^1*(1x^4+6x^1+4), (1x^4+6x^1+4)*6x^1, (6x^1)(1x^4+6x^1+4), (1x^4+6x^1+4)(6x^1), (6x^1)*(1x^4+6x^1+4), (1x^4+6x^1+4)*(6x^1)
Question:	Use the grouping method to factor the polynomial in the box completely. Use the caret symbol (^) to write exponents; for example, enter x^2 as x^2. *Write each factor as a polynomial in descending order.*

$$6x^5 + 36x^2 + 24x$$

Attempt	Incorrect Feedback
1st	

Correct Feedback

Global Incorrect Feedback
The correct answer is: $6x(x^4 + 6x + 4)$.

Question 3b of 8 (3 Using the grouping method to factor one or more GCFs out of a polynomial 294959)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	7x(x^4+7x+4), (x^4+7x+4)7x, 7x*(x^4+7x+4), (x^4+7x+4)*7x, (7x)(x^4+7x+4), (x^4+7x+4)(7x), (7x)*(x^4+7x+4), (x^4+7x+4)*(7x), 7x(1x^4+7x+4), (1x^4+7x+4)7x, 7x*(1x^4+7x+4), (1x^4+7x+4)*7x, (7x)(1x^4+7x+4), (1x^4+7x+4)(7x), (7x)*(1x^4+7x+4), (1x^4+7x+4)*(7x), 7x^1(x^4+7x^1+4), (x^4+7x^1+4)7x^1, 7x^1*(x^4+7x^1+4), (x^4+7x^1+4)*7x^1, (7x^1)(x^4+7x^1+4), (x^4+7x^1+4)(7x^1), (7x^1)*(x^4+7x^1+4), (x^4+7x^1+4)*(7x^1), 7x^1(1x^4+7x^1+4), (1x^4+7x^1+4)7x^1, 7x^1*(1x^4+7x^1+4), (1x^4+7x^1+4)*7x^1, (7x^1)(1x^4+7x^1+4), (1x^4+7x^1+4)(7x^1), (7x^1)*(1x^4+7x^1+4), (1x^4+7x^1+4)*(7x^1)
Question:	Use the grouping method to factor the polynomial in the box completely. Use the caret symbol (^) to write exponents; for example, enter x^2 as x^2. *Write each factor as a polynomial in descending order.*

$$7x^5 + 49x^2 + 28x$$

Attempt	Incorrect Feedback
1st	

Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $7x(x^4 + 7x + 4)$.

Question 3c of 8 (3 Using the grouping method to factor one or more GCFs out of a polynomial 294960)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	5x(x^4+7x+4), (x^4+7x+4)5x, 5x*(x^4+7x+4), (x^4+7x+4)*5x, (5x)(x^4+7x+4), (x^4+7x+4)(5x), (5x)*(x^4+7x+4), (x^4+7x+4)*(5x), 5x(1x^4+7x+4), (1x^4+7x+4)5x, 5x*(1x^4+7x+4), (1x^4+7x+4)*5x, (5x)(1x^4+7x+4), (1x^4+7x+4)(5x), (5x)*(1x^4+7x+4), (1x^4+7x+4)*(5x), 5x^1(x^4+7x^1+4), (x^4+7x^1+4)5x^1, 5x^1*(x^4+7x^1+4), (x^4+7x^1+4)*5x^1, (5x^1)(x^4+7x^1+4), (x^4+7x^1+4)(5x^1), (5x^1)*(x^4+7x^1+4), (x^4+7x^1+4)*(5x^1), 5x^1(1x^4+7x^1+4), (1x^4+7x^1+4)5x^1, 5x^1*(1x^4+7x^1+4), (1x^4+7x^1+4)*5x^1, (5x^1)(1x^4+7x^1+4), (1x^4+7x^1+4)(5x^1), (5x^1)*(1x^4+7x^1+4), (1x^4+7x^1+4)*(5x^1)
Question:	Use the grouping method to factor the polynomial in the box completely. Use the caret symbol (^) to write exponents; for example, enter x^2 as x^2. *Write each factor as a polynomial in descending order.*

$$5x^5 + 35x^2 + 20x$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

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

Question 4a of 8 (3 Using the grouping method to factor one or more GCFs out of a polynomial 91019)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	3x(x^3+4x^2+9), (x^3+4x^2+9)3x, 3x*(x^3+4x^2+9), (x^3+4x^2+9)*3x, (3x)(x^3+4x^2+9), (x^3+4x^2+9)(3x), (3x)*(x^3+4x^2+9), (x^3+4x^2+9)*(3x), 3x(1x^3+4x^2+9), (1x^3+4x^2+9)3x, 3x*(1x^3+4x^2+9), (1x^3+4x^2+9)*3x, (3x)(1x^3+4x^2+9), (1x^3+4x^2+9)(3x), (3x)*(1x^3+4x^2+9), (1x^3+4x^2+9)*(3x), 3x^1(x^3+4x^2+9), (x^3+4x^2+9)3x^1, 3x^1*(x^3+4x^2+9), (x^3+4x^2+9)*3x^1, (3x^1)(x^3+4x^2+9), (x^3+4x^2+9)(3x^1), (3x^1)*(x^3+4x^2+9), (x^3+4x^2+9)*(3x^1), 3x^1(1x^3+4x^2+9), (1x^3+4x^2+9)3x^1, 3x^1*(1x^3+4x^2+9), (1x^3+4x^2+9)*3x^1, (3x^1)(1x^3+4x^2+9), (1x^3+4x^2+9)(3x^1), (3x^1)*(1x^3+4x^2+9), (1x^3+4x^2+9)*(3x^1)
Question:	Use the grouping method to factor the polynomial in the box completely. Use the caret symbol (^) to write exponents; for example, enter x^2 as x^2. *Write each factor as a polynomial in descending order.*

$$3x^4 + 12x^3 + 27x$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $3x(x^3 + 4x^2 + 9)$.

Question 4b of 8 (3 Using the grouping method to factor one or more GCFs out of a polynomial 294961)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	5x(x^3+4x^2+9), (x^3+4x^2+9)5x, 5x*(x^3+4x^2+9), (x^3+4x^2+9)*5x, (5x)(x^3+4x^2+9), (x^3+4x^2+9)(5x), (5x)*(x^3+4x^2+9), (x^3+4x^2+9)*(5x), 5x(1x^3+4x^2+9), (1x^3+4x^2+9)5x, 5x*(1x^3+4x^2+9), (1x^3+4x^2+9)*5x, (5x)(1x^3+4x^2+9), (1x^3+4x^2+9)(5x), (5x)*(1x^3+4x^2+9), (1x^3+4x^2+9)*(5x), 5x^1(x^3+4x^2+9), (x^3+4x^2+9)5x^1, 5x^1*(x^3+4x^2+9), (x^3+4x^2+9)*5x^1, (5x^1)(x^3+4x^2+9), (x^3+4x^2+9)(5x^1), (5x^1)*(x^3+4x^2+9), (x^3+4x^2+9)*(5x^1), 5x^1(1x^3+4x^2+9), (1x^3+4x^2+9)5x^1, 5x^1*(1x^3+4x^2+9), (1x^3+4x^2+9)*5x^1, (5x^1)(1x^3+4x^2+9), (1x^3+4x^2+9)(5x^1), (5x^1)*(1x^3+4x^2+9), (1x^3+4x^2+9)*(5x^1)
Question:	Use the grouping method to factor the polynomial in the box completely. Use the caret symbol (^) to write exponents; for example, enter x^2 as x^2. *Write each factor as a polynomial in descending order.*

$$5x^4 + 20x^3 + 45x$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

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

Question 4c of 8 (3 Using the grouping method to factor one or more GCFs out of a polynomial 294962)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	2x(x^3+4x^2+9), (x^3+4x^2+9)2x, 2x*(x^3+4x^2+9), (x^3+4x^2+9)*2x, (2x)(x^3+4x^2+9), (x^3+4x^2+9)(2x), (2x)*(x^3+4x^2+9), (x^3+4x^2+9)*(2x), 2x(1x^3+4x^2+9), (1x^3+4x^2+9)2x, 2x*(1x^3+4x^2+9), (1x^3+4x^2+9)*2x, (2x)(1x^3+4x^2+9), (1x^3+4x^2+9)(2x), (2x)*(1x^3+4x^2+9), (1x^3+4x^2+9)*(2x), 2x^1(x^3+4x^2+9), (x^3+4x^2+9)2x^1, 2x^1*(x^3+4x^2+9), (x^3+4x^2+9)*2x^1, (2x^1)(x^3+4x^2+9), (x^3+4x^2+9)(2x^1), (2x^1)*(x^3+4x^2+9), (x^3+4x^2+9)*(2x^1), 2x^1(1x^3+4x^2+9), (1x^3+4x^2+9)2x^1, 2x^1*(1x^3+4x^2+9), (1x^3+4x^2+9)*2x^1, (2x^1)(1x^3+4x^2+9), (1x^3+4x^2+9)(2x^1), (2x^1)*(1x^3+4x^2+9), (1x^3+4x^2+9)*(2x^1)
Question:	Use the grouping method to factor the polynomial in the box completely. Use the caret symbol (^) to write exponents; for example, enter x^2 as x^2. *Write each factor as a polynomial in descending order.*

$$2x^4 + 8x^3 + 18x$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $2x(x^3 + 4x^2 + 9)$.

Question 5a of 8 (3 Using the grouping method to factor one or more GCFs out of a polynomial 91020)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	4x^4(x^3+8x+6), (x^3+8x+6)4x^4, 4x^4*(x^3+8x+6), (x^3+8x+6)*4x^4, (4x^4)(x^3+8x+6), (x^3+8x+6)(4x^4), (4x^4)*(x^3+8x+6), (x^3+8x+6)*(4x^4), 4x^4(1x^3+8x+6), (1x^3+8x+6)4x^4, 4x^4*(1x^3+8x+6), (1x^3+8x+6)*4x^4, (4x^4)(1x^3+8x+6), (1x^3+8x+6)(4x^4), (4x^4)*(1x^3+8x+6), (1x^3+8x+6)*(4x^4), 4x^4(x^3+8x^1+6), (x^3+8x^1+6)4x^4, 4x^4*(x^3+8x^1+6), (x^3+8x^1+6)*4x^4, (4x^4)(x^3+8x^1+6), (x^3+8x^1+6)(4x^4), (4x^4)*(x^3+8x^1+6), (x^3+8x^1+6)*(4x^4), 4x^4(1x^3+8x^1+6), (1x^3+8x^1+6)4x^4, 4x^4*(1x^3+8x^1+6), (1x^3+8x^1+6)*4x^4, (4x^4)(1x^3+8x^1+6), (1x^3+8x^1+6)(4x^4), (4x^4)*(1x^3+8x^1+6), (1x^3+8x^1+6)*(4x^4)
Question:	Use the grouping method to factor the polynomial in the box completely. Use the caret symbol (^) to write exponents; for example, enter x^2 as x^2. *Write each factor as a polynomial in descending order.* $4x^7 + 32x^5 + 24x^4$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $4x^4(x^3 + 8x + 6)$.

Question 5b of 8 (3 Using the grouping method to factor one or more GCFs out of a polynomial 294963)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	5x^4(x^3+8x+6), (x^3+8x+6)5x^4, 5x^4*(x^3+8x+6), (x^3+8x+6)*5x^4, (5x^4)(x^3+8x+6), (x^3+8x+6)(5x^4), (5x^4)*(x^3+8x+6), (x^3+8x+6)*(5x^4), 5x^4(1x^3+8x+6), (1x^3+8x+6)5x^4, 5x^4*(1x^3+8x+6), (1x^3+8x+6)*5x^4, (5x^4)(1x^3+8x+6), (1x^3+8x+6)(5x^4), (5x^4)*(1x^3+8x+6), (1x^3+8x+6)*(5x^4), 5x^4(x^3+8x^1+6), (x^3+8x^1+6)5x^4, 5x^4*(x^3+8x^1+6), (x^3+8x^1+6)*5x^4, (5x^4)(x^3+8x^1+6), (x^3+8x^1+6)(5x^4), (5x^4)*(x^3+8x^1+6), (x^3+8x^1+6)*(5x^4), 5x^4(1x^3+8x^1+6), (1x^3+8x^1+6)5x^4, 5x^4*(1x^3+8x^1+6), (1x^3+8x^1+6)*5x^4, (5x^4)(1x^3+8x^1+6), (1x^3+8x^1+6)(5x^4), (5x^4)*(1x^3+8x^1+6), (1x^3+8x^1+6)*(5x^4)
Question:	Use the grouping method to factor the polynomial in the box completely. Use the caret symbol (^) to write exponents; for example, enter x^2 as x^2. *Write each factor as a polynomial in descending order.* $5x^7 + 40x^5 + 30x^4$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

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

Question 5c of 8 (3 Using the grouping method to factor one or more GCFs out of a polynomial 294964)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	6x^4(x^3+8x+6), (x^3+8x+6)6x^4, 6x^4*(x^3+8x+6), (x^3+8x+6)*6x^4, (6x^4)(x^3+8x+6), (x^3+8x+6)(6x^4), (6x^4)*(x^3+8x+6), (x^3+8x+6)*(6x^4), 6x^4(1x^3+8x+6), (1x^3+8x+6)6x^4, 6x^4*(1x^3+8x+6), (1x^3+8x+6)*6x^4, (6x^4)(1x^3+8x+6), (1x^3+8x+6)(6x^4), (6x^4)*(1x^3+8x+6), (1x^3+8x+6)*(6x^4), 6x^4(x^3+8x^1+6), (x^3+8x^1+6)6x^4, 6x^4*(x^3+8x^1+6), (x^3+8x^1+6)*6x^4, (6x^4)(x^3+8x^1+6), (x^3+8x^1+6)(6x^4), (6x^4)*(x^3+8x^1+6), (x^3+8x^1+6)*(6x^4), 6x^4(1x^3+8x^1+6), (1x^3+8x^1+6)6x^4, 6x^4*(1x^3+8x^1+6), (1x^3+8x^1+6)*6x^4, (6x^4)(1x^3+8x^1+6), (1x^3+8x^1+6)(6x^4), (6x^4)*(1x^3+8x^1+6), (1x^3+8x^1+6)*(6x^4)
Question:	Use the grouping method to factor the polynomial in the box completely. Use the caret symbol (^) to write exponents; for example, enter x^2 as x^2. *Write each factor as a polynomial in descending order.* $6x^7 + 48x^5 + 36x^4$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $6x^4(x^3 + 8x + 6)$.

Question 6a of 8 (3 Using the grouping method to factor one or more GCFs out of a polynomial 91021)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	2x^4(3x^5+7x+5), (3x^5+7x+5)2x^4, 2x^4*(3x^5+7x+5), (3x^5+7x+5)*2x^4, (2x^4)(3x^5+7x+5), (3x^5+7x+5)(2x^4), (2x^4)*(3x^5+7x+5), (3x^5+7x+5)*(2x^4), 2x^4(3x^5+7x^1+5), (3x^5+7x^1+5)2x^4, 2x^4*(3x^5+7x^1+5), (3x^5+7x^1+5)*2x^4, (2x^4)(3x^5+7x^1+5), (3x^5+7x^1+5)(2x^4), (2x^4)*(3x^5+7x^1+5), (3x^5+7x^1+5)*(2x^4)
Question:	Use the grouping method to factor the polynomial in the box completely. Use the caret symbol (^) to write exponents; for example, enter x^2 as x^2. *Write each factor as a polynomial in descending order.* $6x^9 + 14x^5 + 10x^4$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

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

Question 6b of 8 (3 Using the grouping method to factor one or more GCFs out of a polynomial 294965)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: 3x^4(3x^5+7x+5), (3x^5+7x+5)3x^4, 3x^4*(3x^5+7x+5), (3x^5+7x+5)*3x^4, (3x^4)(3x^5+7x+5), (3x^5+7x+5)(3x^4), (3x^4)*(3x^5+7x+5), (3x^5+7x+5)*(3x^4), 3x^4(3x^5+7x^1+5), (3x^5+7x^1+5)3x^4, 3x^4*(3x^5+7x^1+5), (3x^5+7x^1+5)*3x^4, (3x^4)(3x^5+7x^1+5), (3x^5+7x^1+5)(3x^4), (3x^4)*(3x^5+7x^1+5), (3x^5+7x^1+5)*(3x^4)

Question: Use the grouping method to factor the polynomial in the box completely. Use the caret symbol (^) to write exponents; for example, enter x^2 as x^2. *Write each factor as a polynomial in descending order.*

$$9x^9 + 21x^5 + 15x^4$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

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

Question 6c of 8 (3 Using the grouping method to factor one or more GCFs out of a polynomial 294966)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: false

Correct Answer: 4x^4(4x^5+7x+5), (4x^5+7x+5)4x^4, 4x^4*(4x^5+7x+5), (4x^5+7x+5)*4x^4, (4x^4)(4x^5+7x+5), (4x^5+7x+5)(4x^4), (4x^4)*(4x^5+7x+5), (4x^5+7x+5)*(4x^4), 4x^4(4x^5+7x^1+5), (4x^5+7x^1+5)4x^4, 4x^4*(4x^5+7x^1+5), (4x^5+7x^1+5)*4x^4, (4x^4)(4x^5+7x^1+5), (4x^5+7x^1+5)(4x^4), (4x^4)*(4x^5+7x^1+5), (4x^5+7x^1+5)*(4x^4)

Question: Use the grouping method to factor the polynomial in the box completely. Use the caret symbol (^) to write exponents; for example, enter x^2 as x^2. *Write each factor as a polynomial in descending order.*

$$16x^9 + 28x^5 + 20x^4$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

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

Question 7a of 8 (3 Using the grouping method to factor one or more GCFs out of a polynomial 91022)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(x^2+4)(x+2), (x+2)(x^2+4), (x+2)*(x^2+4), (x^2+4)*(x+2), (1x+2)(1x^2+4), (1x^2+4)(1x+2), (1x+2)*(1x^2+4), (1x^2+4)*(1x+2), (x^1+2)(x^2+4), (x^2+4)(x^1+2), (x^1+2)*(x^2+4), (x^2+4)*(x^1+2), (1x^1+2)(1x^2+4), (1x^2+4)(1x^1+2), (1x^1+2)*(1x^2+4), (1x^2+4)*(1x^1+2)
Question:	Use the grouping method to factor the polynomial below completely. Use the caret symbol (^) to write exponents; for example, enter x^2 as x^2. *Write each factor as a polynomial in descending order.*

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

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(x^2 + 4)(x + 2)$.

Question 7b of 8 (3 Using the grouping method to factor one or more GCFs out of a polynomial 294967)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(x^2+3)(x+2), (x+2)(x^2+3), (x+2)*(x^2+3), (x^2+3)*(x+2), (1x+2)(1x^2+3), (1x^2+3)(1x+2), (1x+2)*(1x^2+3), (1x^2+3)*(1x+2), (x^1+2)(x^2+3), (x^2+3)(x^1+2), (x^1+2)*(x^2+3), (x^2+3)*(x^1+2), (1x^1+2)(1x^2+3), (1x^2+3)(1x^1+2), (1x^1+2)*(1x^2+3), (1x^2+3)*(1x^1+2)
Question:	Use the grouping method to factor the polynomial below completely. Use the caret symbol (^) to write exponents; for example, enter x^2 as x^2. *Write each factor as a polynomial in descending order.*

$$x^3 + 2x^2 + 3x + 6$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(x^2 + 3)(x + 2)$.

Question 7c of 8 (3 Using the grouping method to factor one or more GCFs out of a polynomial 294968)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(x^2+5)(x+2), (x+2)(x^2+5), (x+2)*(x^2+5), (x^2+5)*(x+2), (1x+2)(1x^2+5), (1x^2+5)(1x+2), (1x+2)*(1x^2+5), (1x^2+5)*(1x+2), (x^1+2)(x^2+5), (x^2+5)(x^1+2), (x^1+2)*(x^2+5), (x^2+5)*(x^1+2), (1x^1+2)(1x^2+5), (1x^2+5)(1x^1+2), (1x^1+2)*(1x^2+5), (1x^2+5)*(1x^1+2)
Question:	Use the grouping method to factor the polynomial below completely. Use the caret symbol (^) to write exponents; for example, enter x^2 as x^2. *Write each factor as a polynomial in descending order.*

$$x^3 + 2x^2 + 5x + 10$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(x^2 + 5)(x + 2)$.

Question 8a of 8 (3 Using the grouping method to factor one or more GCFs out of a polynomial 91023)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(2x^2+7)(x+8), (x+8)(2x^2+7), (x+8)*(2x^2+7), (2x^2+7)*(x+8), (1x+8)(2x^2+7), (2x^2+7)(1x+8), (1x+8)*(2x^2+7), (2x^2+7)*(1x+8), (x^1+8)(2x^2+7), (2x^2+7)(x^1+8), (x^1+8)*(2x^2+7), (2x^2+7)*(x^1+8), (1x^1+8)(2x^2+7), (2x^2+7)(1x^1+8), (1x^1+8)*(2x^2+7), (2x^2+7)*(1x^1+8)
Question:	Use the grouping method to factor the polynomial below completely. Use the caret symbol (^) to write exponents; for example, enter x^2 as x^2. *Write each factor as a polynomial in descending order.*

$$2x^3 + 16x^2 + 7x + 56$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(2x^2 + 7)(x + 8)$.

Question 8b of 8 (3 Using the grouping method to factor one or more GCFs out of a polynomial 294969)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(2x^2+7)(x+6), (x+6)(2x^2+7), (x+6)*(2x^2+7), (2x^2+7)*(x+6), (1x+6)(2x^2+7), (2x^2+7)(1x+6), (1x+6)*(2x^2+7), (2x^2+7)*(1x+6), (x^1+6)(2x^2+7), (2x^2+7)(x^1+6), (x^1+6)*(2x^2+7), (2x^2+7)*(x^1+6), (1x^1+6)(2x^2+7), (2x^2+7)(1x^1+6), (1x^1+6)*(2x^2+7), (2x^2+7)*(1x^1+6)
Question:	Use the grouping method to factor the polynomial below completely. Use the caret symbol (^) to write exponents; for example, enter x^2 as x^2. *Write each factor as a polynomial in descending order.*

$$2x^3 + 12x^2 + 7x + 42$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(2x^2 + 7)(x + 6)$.

Question 8c of 8 (3 Using the grouping method to factor one or more GCFs out of a polynomial 294970)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(2x^2+5)(x+6), (x+6)(2x^2+5), (x+6)*(2x^2+5), (2x^2+5)*(x+6), (1x+6)(2x^2+5), (2x^2+5)(1x+6), (1x+6)*(2x^2+5), (2x^2+5)*(1x+6), (x^1+6)(2x^2+5), (2x^2+5)(x^1+6), (x^1+6)*(2x^2+5), (2x^2+5)*(x^1+6), (1x^1+6)(2x^2+5), (2x^2+5)(1x^1+6), (1x^1+6)*(2x^2+5), (2x^2+5)*(1x^1+6)
Question:	Use the grouping method to factor the polynomial below completely. Use the caret symbol (^) to write exponents; for example, enter x^2 as x^2. *Write each factor as a polynomial in descending order.*

$$2x^3 + 12x^2 + 5x + 30$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(2x^2 + 5)(x + 6)$.