

Problem 1

	A	B
1	a	2
2	b	0
3	c	-2
4	quadratic	$2 \cdot x^2 - 2$
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11		

Question

What is the completely factored form of $2 \cdot x^2 - 2$?

Answer

Question

What is the completely factored form of $2 \cdot x^2 - 2$?

Answer

$2 \cdot x^2 - 2 = 2 \cdot (x - 1) \cdot (x + 1)$

Problem 2

A		B	
=			
1	a		3
2	b		-1
3	c		-2
4	quadratic	$3 \cdot x^2 - x - 2$	
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Question

What is the completely factored form of $3 \cdot x^2 - x - 2$?

Answer

Question

What is the completely factored form of $3 \cdot x^2 - x - 2$?

Answer

$3 \cdot x^2 - x - 2 = (x - 1) \cdot (3 \cdot x + 2)$

Problem 3

	A	B	Question
	=		
1	a	5	What is the completely factored form of $5 \cdot x^2 - 3 \cdot x - 2$?
2	b	-3	
3	c	-2	
4	quadratic	$5 \cdot x^2 - 3 \cdot x - 2$	
5			
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11			
B4	quadratic: $= b1 \cdot x^2 + b2 \cdot x + b3$		Answer

Question
What is the completely factored form of $5 \cdot x^2 - 3 \cdot x - 2$?
Answer
$5 \cdot x^2 - 3 \cdot x - 2 = (x - 1) \cdot (5 \cdot x + 2)$

Problem 4

	A	B
1	a	6
2	b	-4
3	c	-2
4	quadratic	$6x^2-4x-2$
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Question

What is the completely factored form of $6x^2-4x-2$?

Answer

Question

What is the completely factored form of $6x^2-4x-2$?

Answer

$6x^2-4x-2=2(x-1)(3x+1)$

Problem 5

	A	B	Question
	=		
1	a	4	What is the completely factored form of $4 \cdot x^2 - 2 \cdot x - 2$?
2	b	-2	
3	c	-2	
4	quadratic	$4 \cdot x^2 - 2 \cdot x - 2$	
5			
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8			
9			
10			
11			
B4	quadratic: $= b1 \cdot x^2 + b2 \cdot x + b3$		Answer

Question
What is the completely factored form of $4 \cdot x^2 - 2 \cdot x - 2$?
Answer
$4 \cdot x^2 - 2 \cdot x - 2 = 2 \cdot (x - 1) \cdot (2 \cdot x + 1)$

Problem 6

	A	B	Question
1	a	7	What is the completely factored form of $7 \cdot x^2 - 5 \cdot x - 2$?
2	b	-5	
3	c	-2	
4	quadratic	$7 \cdot x^2 - 5 \cdot x - 2$	
5			
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11			
B4	quadratic: $= b1 \cdot x^2 + b2 \cdot x + b3$		Answer

Question
What is the completely factored form of $7 \cdot x^2 - 5 \cdot x - 2$?
Answer
$7 \cdot x^2 - 5 \cdot x - 2 = (x - 1) \cdot (7 \cdot x + 2)$

Problem 7

	A	B
1	a	2
2	b	4
3	c	2
4	quadratic	$2 \cdot x^2 + 4 \cdot x + 2$
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Question

What is the completely factored form of $2 \cdot x^2 + 4 \cdot x + 2$?

Answer

Question

What is the completely factored form of $2 \cdot x^2 + 4 \cdot x + 2$?

Answer

$2 \cdot x^2 + 4 \cdot x + 2 = 2 \cdot (x + 1)^2$

Problem 8

	A	B	Question
1	a	3	What is the completely factored form of $3 \cdot x^2 + 5 \cdot x + 2$?
2	b	5	
3	c	2	
4	quadratic	$3 \cdot x^2 + 5 \cdot x + 2$	
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6			
7			
8			
9			
10			
11			
B4	quadratic: $= b1 \cdot x^2 + b2 \cdot x + b3$		Answer

Question
What is the completely factored form of $3 \cdot x^2 + 5 \cdot x + 2$?
Answer
$3 \cdot x^2 + 5 \cdot x + 2 = (x + 1) \cdot (3 \cdot x + 2)$

Problem 9

	A	B
1	a	5
2	b	7
3	c	2
4	quadratic	$5x^2+7x+2$
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Question

What is the completely factored form of $5 \cdot x^2 + 7 \cdot x + 2$?

Answer

Question

What is the completely factored form of $5 \cdot x^2 + 7 \cdot x + 2$?

Answer

$5 \cdot x^2 + 7 \cdot x + 2 = (x + 1) \cdot (5 \cdot x + 2)$

Problem 10

A		B	Question
=			
1	a	6	<p>What is the completely factored form of $6 \cdot x^2 + 8 \cdot x + 2$?</p>
2	b	8	
3	c	2	
4	quadratic	$6 \cdot x^2 + 8 \cdot x + 2$	
5			
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11			
B4	quadratic: $= b1 \cdot x^2 + b2 \cdot x + b3$		Answer

Question
<p>What is the completely factored form of $6 \cdot x^2 + 8 \cdot x + 2$?</p>
Answer
$6 \cdot x^2 + 8 \cdot x + 2 = 2 \cdot (x + 1) \cdot (3 \cdot x + 1)$

Problem 11

	A	B	
	=		
1	a		4
2	b		6
3	c		2
4	quadratic	$4x^2+6x+2$	
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Question

What is the completely factored form of $4x^2+6x+2$?

Answer

Question

What is the completely factored form of $4x^2+6x+2$?

Answer

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

Problem 12

	A	B
1	a	7
2	b	9
3	c	2
4	quadratic	$7x^2+9x+2$
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Question

What is the completely factored form of $7x^2+9x+2$?

Answer

Question

What is the completely factored form of $7x^2+9x+2$?

Answer

$7x^2+9x+2=(x+1)\cdot(7x+2)$

Problem 13

	A	B
	=	
1	a	2
2	b	-2
3	c	-4
4	quadratic	$2 \cdot x^2 - 2 \cdot x - 4$
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Question

What is the completely factored form of $2 \cdot x^2 - 2 \cdot x - 4$?

Answer

Question

What is the completely factored form of $2 \cdot x^2 - 2 \cdot x - 4$?

Answer

$2 \cdot x^2 - 2 \cdot x - 4 = 2 \cdot (x - 2) \cdot (x + 1)$

Problem 14

	A	B
1	a	3
2	b	4
3	c	-4
4	quadratic	$3x^2+4x-4$
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Question

What is the completely factored form of $3 \cdot x^2 + 4 \cdot x - 4$?

Answer

Question

What is the completely factored form of $3 \cdot x^2 + 4 \cdot x - 4$?

Answer

$3 \cdot x^2 + 4 \cdot x - 4 = (x + 2) \cdot (3 \cdot x - 2)$

Problem 15

	A	B	Question
1	a	5	What is the completely factored form of $5 \cdot x^2 - 8 \cdot x - 4$?
2	b	-8	
3	c	-4	
4	quadratic	$5 \cdot x^2 - 8 \cdot x - 4$	
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10			
11			
B4	quadratic: $= b1 \cdot x^2 + b2 \cdot x + b3$		Answer

Question
What is the completely factored form of $5 \cdot x^2 - 8 \cdot x - 4$?
Answer
$5 \cdot x^2 - 8 \cdot x - 4 = (x - 2) \cdot (5 \cdot x + 2)$

Problem 16

	A	B
1	a	6
2	b	10
3	c	-4
4	quadratic	$6x^2+10x-4$
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10		
11		

Question

What is the completely factored form of $6 \cdot x^2 + 10 \cdot x - 4$?

Answer

Question

What is the completely factored form of $6 \cdot x^2 + 10 \cdot x - 4$?

Answer

$6 \cdot x^2 + 10 \cdot x - 4 = 2 \cdot (x + 2) \cdot (3 \cdot x - 1)$

Problem 17

	A	B
=		
1	a	4
2	b	-6
3	c	-4
4	quadratic	$4x^2 - 6x - 4$
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Question

What is the completely factored form of $4x^2 - 6x - 4$?

Answer

Question

What is the completely factored form of $4x^2 - 6x - 4$?

Answer

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

Problem 18

	A	B
1	a	7
2	b	-12
3	c	-4
4	quadratic	$7x^2-12x-4$
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Question

What is the completely factored form of $7x^2-12x-4$?

Answer

Question

What is the completely factored form of $7x^2-12x-4$?

Answer

$7x^2-12x-4=(x-2)\cdot(7x+2)$

Problem 19

A		B	Question
=			
1	a	8	What is the completely factored form of $8 \cdot x^2 - 14 \cdot x - 4$?
2	b	-14	
3	c	-4	
4	quadratic	$8 \cdot x^2 - 14 \cdot x - 4$	
5			
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8			
9			
10			
11			
B4	quadratic: $= b1 \cdot x^2 + b2 \cdot x + b3$		Answer

Question
What is the completely factored form of $8 \cdot x^2 - 14 \cdot x - 4$?
Answer
$8 \cdot x^2 - 14 \cdot x - 4 = 2 \cdot (x - 2) \cdot (4 \cdot x + 1)$

Problem 20

	A	B
1	a	10
2	b	-18
3	c	-4
4	quadratic	$10 \cdot x^2 - \dots$
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Question

What is the completely factored form of $10 \cdot x^2 - 18 \cdot x - 4$?

Answer

Question

What is the completely factored form of $10 \cdot x^2 - 18 \cdot x - 4$?

Answer

$10 \cdot x^2 - 18 \cdot x - 4 = 2 \cdot (x - 2) \cdot (5 \cdot x + 1)$

Problem 21

	A	B
1	a	2
2	b	7
3	c	-15
4	quadratic	$2 \cdot x^2 + 7 \cdot x - 15$
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Question

What is the completely factored form of $2 \cdot x^2 + 7 \cdot x - 15$?

Answer

Question

What is the completely factored form of $2 \cdot x^2 + 7 \cdot x - 15$?

Answer

$2 \cdot x^2 + 7 \cdot x - 15 = (x + 5) \cdot (2 \cdot x - 3)$

Problem 22

	A	B
	=	
1	a	3
2	b	12
3	c	-15
4	quadratic	$3 \cdot x^2 + 12 \cdot x - 15$
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Question

What is the completely factored form of $3 \cdot x^2 + 12 \cdot x - 15$?

Answer

Question

What is the completely factored form of $3 \cdot x^2 + 12 \cdot x - 15$?

Answer

$3 \cdot x^2 + 12 \cdot x - 15 = 3 \cdot (x - 1) \cdot (x + 5)$

Problem 23

	A	B
	=	
1	a	5
2	b	22
3	c	-15
4	quadratic	$5 \cdot x^2 + 22 \cdot x - 15$
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Question

What is the completely factored form of $5 \cdot x^2 + 22 \cdot x - 15$?

Answer

Question

What is the completely factored form of $5 \cdot x^2 + 22 \cdot x - 15$?

Answer

$5 \cdot x^2 + 22 \cdot x - 15 = (x + 5) \cdot (5 \cdot x - 3)$

Problem 24

	A	B
1	a	6
2	b	27
3	c	-15
4	quadratic	$6x^2+27x-15$
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Question

What is the completely factored form of $6x^2+27x-15$?

Answer

Question

What is the completely factored form of $6x^2+27x-15$?

Answer

$6x^2+27x-15=3(x+5)(2x-1)$

Problem 25

A		B	Question
=			
1	a	4	What is the completely factored form of $4 \cdot x^2 + 17 \cdot x - 15$?
2	b	17	
3	c	-15	
4	quadratic	$4 \cdot x^2 + 17 \cdot x - 15$	
5			
6			
7			
8			
9			
10			
11			
B4		quadratic: $= b1 \cdot x^2 + b2 \cdot x + b3$	Answer

Question
What is the completely factored form of $4 \cdot x^2 + 17 \cdot x - 15$?
Answer
$4 \cdot x^2 + 17 \cdot x - 15 = (x + 5) \cdot (4 \cdot x - 3)$

Problem 26

	A	B
1	a	7
2	b	32
3	c	-15
4	quadratic	$7x^2+32x-15$
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10		
11		

Question

What is the completely factored form of $7x^2+32x-15$?

Answer

Question

What is the completely factored form of $7x^2+32x-15$?

Answer

$7x^2+32x-15=(x+5)\cdot(7x-3)$

Problem 27

	A	B
1	a	2
2	b	-1
3	c	-3
4	quadratic	$2x^2 - x - 3$
5		
6		
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9		
10		
11		

Question

What is the completely factored form of $2 \cdot x^2 - x - 3$?

Answer

Question

What is the completely factored form of $2 \cdot x^2 - x - 3$?

Answer

$2 \cdot x^2 - x - 3 = (x + 1) \cdot (2 \cdot x - 3)$

Problem 28

	A	B
1	a	3
2	b	0
3	c	-3
4	quadratic	$3 \cdot x^2 - 3$
5		
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11		

Question

What is the completely factored form of $3 \cdot x^2 - 3$?

Answer

Question

What is the completely factored form of $3 \cdot x^2 - 3$?

Answer

$3 \cdot x^2 - 3 = 3 \cdot (x - 1) \cdot (x + 1)$

Problem 29

	A	B
1	a	5
2	b	2
3	c	-3
4	quadratic	$5x^2+2x-3$
5		
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11		

Question

What is the completely factored form of $5 \cdot x^2 + 2 \cdot x - 3$?

Answer

Question

What is the completely factored form of $5 \cdot x^2 + 2 \cdot x - 3$?

Answer

$5 \cdot x^2 + 2 \cdot x - 3 = (x+1) \cdot (5 \cdot x - 3)$

Problem 30

	A	B
1	a	6
2	b	3
3	c	-3
4	quadratic	$6x^2+3x-3$
5		
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10		
11		

Question

What is the completely factored form of $6x^2+3x-3$?

Answer

Question

What is the completely factored form of $6x^2+3x-3$?

Answer

$6x^2+3x-3=3(x+1)(2x-1)$