

Curriculum

Navigator

Assignments

Usage

Clone

Curricula

CLOSED

DRAFT: 2017-2018

RSM Olympiad

2016: RSM Olympiad

2017: RSM Olympiad

2018: RSM Olympiad

Olympiad 2018

Grade 3

Grade 4

Grade 5

Grade 6

Grade 7

Grade 8

Olympiad 2018 Supporting Material and Archive

Olympiad 2018 v2

ID	Prt#	Text
941690	P	1 What number is covered?
941694	P	2 How many cuts does Bobby make to split his bro
941687	P	3 How much does one bunny weigh?
941689	P	4 Coins were arranged in a square. How many coin
941688	P	5 What number is the difference between the smal
941691	P	6 On Monday morning, a puppy weighed 11 pound
941692	P	7 Three bears cooked 92 pounds of porridge. Baby
941693	P	8 Usually Mary drives to grandma's house in a stra
941695	P	9 Winnie-the-Pooh had only one full jar of honey le
941696	P	10 A locked box has three digits written on it: 5, 2,
941697	P	11 Find the area of the park.
941698	P	12 There were 84 more frogs in Green Pond than in
941699	P	13 Bailey is making festive cookie bags. She tried to
941700	P	14 There were two competitions in a puzzle tournam

Asset Content

Answers


Solutions

Timestamps

Save

Cancel

Winnie-the-Pooh had only one full jar of honey left. The other jars were empty. Trying to find the full jar, Winnie broke one-third of his empty jars. Now, he has 37 jars left (one of them is full of honey). How many jars did he break?



Preview Edit

Answer: Winnie-the-Pooh broke {{regular: 18}} jars. Edit

Alternative

Load in GraphEditor

Add Hint

Add Step-by-step Solution

Attach Example

Add Sub-Problem

Properties

Problem

ID: 941695

Author: {tbd:author}

Source:

Difficulty: {{33}}

Difficulty Level:

Discuss In Class:

Out Loud:

Printed Number: 9

Summary:

Original File:

Original Number:

All SubProblems Required:

Origin Asset ID: 935562 show

Required Asset ID: none edit

-- List Sub-Problems to use in Lesson Plan (i. or leave it blank to use all Sub-Problems

Lesson Plan Sub-Problems:

Tags:

Learning Tags: 2 Learning Ta

Pre Required Tags: 0 Pre Require

Audience:

Preview

Search

History

Tag Report

Step-by-step

Create Step-by-step Solution:

Step 1:

2+2={{4}}

Edit

Remove

Add step

Save

Cancel

W.Paste

B

I

x^2

x_2

$\frac{1}{3}$

$\frac{1}{4}$

$\frac{1}{5}$

$\frac{1}{6}$

$\frac{1}{7}$

$\frac{1}{8}$

$\frac{1}{9}$

PRE

H3

H4(bold)

\uparrow

\downarrow

Ins...

$\frac{1}{2}$

$\sqrt{\quad}$

$\frac{1}{3}$

$\frac{1}{4}$

$\frac{1}{5}$

$\frac{1}{6}$

$\frac{1}{7}$

$\frac{1}{8}$

$\frac{1}{9}$

$\frac{1}{10}$

$\frac{1}{11}$

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$\frac{1}{99}$

$\frac{1}{100}$

JSON/NORMAL

2+2={{4}}

OK

Cancel

Curriculum

Navigator

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Preview

Edit

Answer: Winnie-the-Pooh broke {{regular: 18}} jars. [Edit](#)

☐ Alternative

Step-by-Step Solution [Edit](#)

[Attach Example](#)

[Add Sub-Problem](#)

Properties

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Learning Tags: 2 Learning Ta

Pre Required Tags: 0 Pre Require

Audience:

Preview

Search

History

Tag Report

Step-by-step

Edit Step-by-step Solution:

Step 1:

Winnie-the-Pooh finally has {{ 36 }} empty jars.

[Edit](#)

[Remove](#)

[Up](#)

[Down](#)

Step 2:

Two-third of 36 is {{ 24 }}

[Edit](#)

[Remove](#)

[Up](#)

[Down](#)

W.Paste

B

I

x^2

x_2

$\frac{1}{2}$

$\frac{1}{3}$

$\frac{1}{4}$

$\frac{1}{5}$

$\frac{1}{6}$

$\frac{1}{7}$

$\frac{1}{8}$

$\frac{1}{9}$

PRE

H3

H4(bold)

\uparrow

\downarrow

Ins...

$\frac{1}{2}$

$\sqrt{\quad}$

$\frac{1}{2}$

$\frac{1}{3}$

$\frac{1}{4}$

$\frac{1}{5}$

$\frac{1}{6}$

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2017: RSM Olympiad

2018: RSM Olympiad

Olympiad 2018

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ID	Prt#	Text
941690	P	1 What number is covered?
941694	P	2 How many cuts does Bobby make to split his bro
941687	P	3 How much does one bunny weigh?
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941688	P	5 What number is the difference between the smal
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941696	P	10 A locked box has three digits written on it: 5, 2,
941697	P	11 Find the area of the park.
941698	P	12 There were 84 more frogs in Green Pond than in
941699	P	13 Bailey is making festive cookie bags. She tried to
941700	P	14 There were two competitions in a puzzle tournam

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Winnie-the-Pooh had only one full jar of honey left. The other jars were empty. Trying to find the full jar, Winnie broke one-third of his empty jars. Now, he has 37 jars left (one of them is full of honey). How many jars did he break?



Preview

Edit

Answer: Winnie-the-Pooh broke {{regular: 18}} jars. Edit

Alternative

Load in GraphEditor

Add Help

Add Hint

Attach Example

Add Sub-Problem

Properties

Problem

ID: 941695

Author: {tbd:author}

Source:

Difficulty: {{33}}

Difficulty Level:

Discuss In Class:

Out Loud:

Printed Number: 9

Summary:

Original File:

Original Number:

All SubProblems Required:

Origin Asset ID: 935562 [show](#)

Required Asset ID: none [edit](#)

-- List Sub-Problems to use in Lesson Plan (i.

-- or leave it blank to use all Sub-Problems

Lesson Plan Sub-Problems:

Tags:

Learning Tags: 2 Learning Ta

Pre Required Tags: 0 Pre Require

Audience:

Preview

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History

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Create Hint:

Paragraph

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Simple

Conditional

Save Hint

Cancel


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ID	Prt#	Text
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Asset Content
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Preview Edit
Answer: Winnie-the-Pooh broke {{regular: 18}} jars. Edit
☐ Alternative
Load in GraphEditor
Add Help
Add Hint
Attach Example
Add Sub-Problem

Problem
ID: 941695
Author: {tbd:author}
Source:
Difficulty: {{33}}
Difficulty Level:
Discuss In Class:
Out Loud:
Printed Number: 9
Summary:
Original File:
Original Number:
All SubProblems Required:
Origin Asset ID: 935562 [show](#)
Required Asset ID: none [edit](#)

-- List Sub-Problems to use in Lesson Plan (i.
-- or leave it blank to use all Sub-Problems
Lesson Plan Sub-Problems:

Tags:
Learning Tags: 2 Learning Ta
Pre Required Tags: 0 Pre Require
Audience:

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Clone Hint:

Paragraph
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$$\begin{aligned}
 &x^4 - 7x^3 + 12x^2 - 3x^3 + 21x^2 - 36x + 2x^2 - 14x + 24 = \\
 &= x^2 \cdot (x^2 - 7x + 12) - 3x \cdot (x^2 - 7x + 12) + 2(x^2 - 7x + 12) = \\
 &= (x^2 - 7x + 12) \cdot (x^2 - 3x + 2) = (x - 3)(x - 4)(x - 1)(x - 2)
 \end{aligned}$$

0 words Powered by Tiny

☒ Simple
☐ Conditional

Save Hint
Cancel

Step 1:

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[Add step](#)

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 Properties

Answer: Winnie-the-Pooh broke `{{regular: 18}}` jars. Edit

☐ Alternative


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Add Step-by-step Solution

Attach Example

Add Sub-Problem

 **Problem**

ID:	941695
Author:	{tbd:author}
Source:	
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Original Number:	
All SubProblems Required:	
Origin Asset ID:	935562 show
Required Asset ID:	none edit

-- List Sub-Problems to use in Lesson Plan (i.
-- or leave it blank to use all Sub-Problems
Lesson Plan Sub-Problems:

Tags:

Learning Tags:	2 Learning Ta
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Audience:	

Winnie-the-Pooh finally has $\{\{ 36 \}\}$ empty jars.

Up
Down















Two-third of 36 is $\{\{ 24 \}\}$


Up
Down

Save

Cancel

[Delete this solution](#)

ID	Prt#	Text
941690		1 What number is covered?
941694		2 How many cuts does Bobby make to split his bro
941687		3 How much does one bunny weigh?
941689		4 Coins were arranged in a square. How many coin
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941699		13 Bailey is making festive cookie bags. She tried to
941700		14 There were two competitions in a puzzle tournam

 Properties

Answer: Winnie-the-Pooh broke $\{\{\text{regular: 18}\}\}$ jars. Edit

Step-by-Step Solution [Edit](#)

Add Sub-Problem

Problem

ID:	941695
Author:	{tbd:author}
Source:	
Difficulty:	{{33}}
Difficulty Level:	
Discuss In Class:	
Out Loud:	
Printed Number:	9
Summary:	
Original File:	
Original Number:	
All SubProblems Required:	
Origin Asset ID:	935562 show
Required Asset ID:	none edit

-- List Sub-Problems to use in Lesson Plan (i.
-- or leave it blank to use all Sub-Problems
Lesson Plan Sub-Problems:

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Learning Tags: 2 Learning Ta
Pre Required Tags: 0 Pre Require
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ID

Prt#

Text

941690

P

1 What number is covered?

941694

P

2 How many cuts does Bobby make to split his bro

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P

9 Winnie-the-Pooh had only one full jar of honey le

941696

P

10 A locked box has three digits written on it: 5, 2,

941697

P

11 Find the area of the park.

941698

P

12 There were 84 more frogs in Green Pond than in

941699

P

13 Bailey is making festive cookie bags. She tried to

941700

P

14 Ther

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12345

Pick up numbers to make the problem easier to solve - such as 160cm for Marianne's

12346

The boats start moving from the same pier.xcvx

12347

If we increase an amount by p%, we will have (100+p)% of the amount. So, to i

12348

$x^4 - 7x^3 + 12x^2 - 3x^3 + 21x^2 - 36x + 2x^2 - 14x + 24 = \dots$

12349

1% of a number is 1100 of that number.

12350

To solve this system of linear equations, start by simplifying both equations.

12351

Do smart calculation!

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Preview Edit

Answer: Winnie-the-Pooh broke {{regular: 18}} jars. Edit

Alternative

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Add Help

Add Hint

Attach Example

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ID:

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Difficulty:

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Original Number:

All SubProblems Required:

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Required Asset ID:

-- List Sub-Problems to use in Lesson Plan (i.e. or leave it blank to use all Sub-Problems

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Learning Tags:

Pre Required Tags:

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– 3x3 + 21x2 – 36x + 2x2 – 14x + 24 =

$(x^2 - 3x + 2) - 3x \cdot (x^2 - 7x + 12) + 2(x^2 - 7x + 12) =$

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

Items

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Prt#

Sub-problem

> RSM Olympiad > 2018: RSM Olympiad > Olympiad 2018 > Grade 3

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> RSM Olympiad > 2018: RSM Olympiad > Olympiad 2018 > Grade 6

941738

10

b

> RSM Olympiad > 2018: RSM Olympiad > Olympiad 2018 > Grade 6

941731

2

c

> RSM Olympiad > 2018: RSM Olympiad > Olympiad 2018 > Grade 3

941699

13

d

> RSM Olympiad > 2018: RSM Olympiad > Olympiad 2018 > Grade 6

941738

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b

> RSM Olympiad > 2018: RSM Olympiad > Olympiad 2018 > Grade 6

941731

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ID	Prt#	Text
941690	P	1 What number is covered?
941694	P	2 How many cuts does Bobby make to split his bro
941687	P	3 How much does one bunny weigh?
941689	P	4 Coins were arranged in a square. How many coin
941688	P	5 What number is the difference between the smal
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Preview Edit

Answer: Winnie-the-Pooh broke {{regular: 18}} jars. Edit

☐ Alternative

Load in GraphEditor

Add Help

Add Hint

Attach Example

Add Sub-Problem

Properties

Problem

ID: 941695

Author: {tbd:author}

Source:

Difficulty: {{33}}

Difficulty Level:

Discuss In Class:

Out Loud:

Printed Number: 9

Summary:

Original File:

Original Number:

All SubProblems Required:

Origin Asset ID: 935562 [show](#)

Required Asset ID: none [edit](#)

-- List Sub-Problems to use in Lesson Plan (i. or leave it blank to use all Sub-Problems

Lesson Plan Sub-Problems:

Tags:

Learning Tags: 2 Learning Ta

Pre Required Tags: 0 Pre Require

Audience:

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ID	Title	Unused
12345	Pick up numbers to make the problem easier to solve - such as 160cm for Marianne's	
12346	The boats start moving from the same pier.xcvx	
12347	If we increase an amount by p%, we will have (100+p)% of the amount. So, to i	
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12349	1% of a number is 1100 of that number.	
12350	To solve this system of linear equations, start by simplifying both equations.	
12351	Do smart calculation!	

Hint preview

$$\begin{aligned} &x^4 - 7x^3 + 12x^2 - 3x^3 + 21x^2 - 36x + 2x^2 - 14x + 24 = \\ &= x^2 \cdot (x^2 - 7x + 12) - 3x \cdot (x^2 - 7x + 12) + 2(x^2 - 7x + 12) = \\ &= (x^2 - 7x + 12) \cdot (x^2 - 3x + 2) = (x - 3)(x - 4)(x - 1)(x - 2) \end{aligned}$$

Hint is used in problems

Open problem

Remove hint from sub-problem

Location	ID	Prt#	Sub-problem
> RSM Olympiad > 2018: RSM Olympiad > Olympiad 2018 > Grade 3	941699	13	a
> RSM Olympiad > 2018: RSM Olympiad > Olympiad 2018 > Grade 6	941738	10	b
> RSM Olympiad > 2018: RSM Olympiad > Olympiad 2018 > Grade 6	941731	2	c
> RSM Olympiad > 2018: RSM Olympiad > Olympiad 2018 > Grade 3	941699	13	d
> RSM Olympiad > 2018: RSM Olympiad > Olympiad 2018 > Grade 6	941738	10	b
> RSM Olympiad > 2018: RSM Olympiad > Olympiad 2018 > Grade 6	941731	2	a

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 - + 2017: RSM Olympiad
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ID	Prt#	Text
941690	P	1 What number is covered?
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Preview Edit

Answer: Winnie-the-Pooh broke `{{regular: 18}}` jars. Edit

☐ Alternative

Load in GraphEditor

Add Help

Add Hint

Attach Example

Add Sub-Problem

Problem

ID:

941695

Author:

{tbd:author}

Source:

Difficulty:

{{33}}

Difficulty Level:

Discuss In Class:

Out Loud:

Printed Number:

9

Summary:

Original File:

Original Number:

All SubProblems Required:

Origin Asset ID:

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Required Asset ID:

none [edit](#)

-- List Sub-Problems to use in Lesson Plan (i.e. or leave it blank to use all Sub-Problems)

Lesson Plan Sub-Problems:

Tags:

Learning Tags:

2 Learning Tags

Pre Required Tags:

0 Pre Required Tags

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ID	Prt#	Text
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Problem

ID: 941695
Author: {tbd:author}
Source:
Difficulty: {{33}}
Difficulty Level:
Discuss In Class:
Out Loud:
Printed Number: 9
Summary:
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Original Number:
All SubProblems Required:
Origin Asset ID: 935562 [show](#)
Required Asset ID: none [edit](#)

-- List Sub-Problems to use in Lesson Plan (i.e. or leave it blank to use all Sub-Problems)
Lesson Plan Sub-Problems:

Tags:
Learning Tags: 2 Learning Tags
Pre Required Tags: 0 Pre Required Tags
Audience:

Winnie-the-Pooh had only one full jar of honey left. The other jars were empty. Trying to find the full jar, Winnie broke one-third of his empty jars. Now, he has 37 jars left (one of them is full of honey). How many jars did he break?



Preview Edit

Answer: Winnie-the-Pooh broke {{regular: 18}} jars. [Edit](#)

☐ Alternative






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[Add Help](#)










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[Attach Example](#)

[Add Sub-Problem](#)

 Preview	 Search	 History	 Tag Report	 Hints
--------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------

All hints	Recent	My hints	Filter	Create	Clone	Edit	Delete
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Hint text contains "amo"			Edit filter	Clear filter
ID	Title	Unused		
12345	 Pick up numbers to make the problem easier to solve - such as 160cm for Marianne's			
12346	 The boats start moving from the same pier.xcvx			
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Hint preview	$ \begin{aligned} &x^4 - 7x^3 + 12x^2 - 3x^3 + 21x^2 - 36x + 2x^2 - 14x + 24 = \\ &= x^2 \cdot (x^2 - 7x + 12) - 3x \cdot (x^2 - 7x + 12) + 2(x^2 - 7x + 12) = \\ &= (x^2 - 7x + 12) \cdot (x^2 - 3x + 2) = (x - 3)(x - 4)(x - 1)(x - 2) \end{aligned} $		
Hint is used in problems	Open problem	Remove hint from sub-problem	
Location	ID	Prt#	Sub-problem
 > RSM Olympiad > 2018: RSM Olympiad > Olympiad 2018 > Grade 3	941699	13	a
 > RSM Olympiad > 2018: RSM Olympiad > Olympiad 2018 > Grade 6	941738	10	b
 > RSM Olympiad > 2018: RSM Olympiad > Olympiad 2018 > Grade 6	941731	2	c
 > RSM Olympiad > 2018: RSM Olympiad > Olympiad 2018 > Grade 3	941699	13	d
 > RSM Olympiad > 2018: RSM Olympiad > Olympiad 2018 > Grade 6	941738	10	b
 > RSM Olympiad > 2018: RSM Olympiad > Olympiad 2018 > Grade 6	941731	2	a


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- RSM Olympiad
+ 2016: RSM Olympiad
+ 2017: RSM Olympiad
- 2018: RSM Olympiad
- Olympiad 2018
Grade 3
Grade 4
Grade 5
Grade 6
Grade 7
Grade 8
+ Olympiad 2018 Supporting Material and Archive
+ Olympiad 2018 v2

ID	Prt#	Text
941690	P	1 What number is covered?
941694	P	2 How many cuts does Bobby make to split his bro
941687	P	3 How much does one bunny weigh?
941689	P	4 Coins were arranged in a square. How many coin
941688	P	5 What number is the difference between the smal
941691	P	6 On Monday morning, a puppy weighed 11 pound
941692	P	7 Three bears cooked 92 pounds of porridge. Baby
941693	P	8 Usually Mary drives to grandma's house in a stra
941695	P	9 Winnie-the-Pooh had only one full jar of honey le
941696	P	10 A locked box has three digits written on it: 5, 2,
941697	P	11 Find the area of the park.
941698	P	12 There were 84 more frogs in Green Pond than in
941699	P	13 Bailey is making festive cookie bags. She tried to
941700	P	14 There were two competitions in a puzzle tournam

Asset Content
Answers
Solutions
Timestamps
Save
Cancel

Winnie-the-Pooh had only one full jar of honey left. The other jars were empty. Trying to find the full jar, Winnie broke one-third of his empty jars. Now, he has 37 jars left (one of them is full of honey). How many jars did he break?



Preview Edit

Answer: Winnie-the-Pooh broke `{{regular: 18}}` jars. Edit

☐ Alternative

Load in GraphEditor

Add Hint

Add Step-by-step Solution

Attach Example

Add Sub-Problem

Properties

Problem

ID: 941695

Author: {tbd:author}

Source:

Difficulty: {{33}}

Difficulty Level:

Discuss In Class:

Out Loud:

Printed Number: 9

Summary:

Original File:

Original Number:

All SubProblems Required:

Origin Asset ID: 935562 [show](#)

Required Asset ID: none [edit](#)

-- List Sub-Problems to use in Lesson Plan (i.e. or leave it blank to use all Sub-Problems

Lesson Plan Sub-Problems:

Tags:

Learning Tags: 2 Learning Ta

Pre Required Tags: 0 Pre Require

Audience:

Preview
Search
History
Tag Report
Hints

Add Hint to problem 941695 sub-problem A:

☒ Create new hint
☐ Clone existing hint
☐ Reuse existing hint

Paragraph
B
I

$$\begin{aligned}
 &x^4 - 7x^3 + 12x^2 - 3x^3 + 21x^2 - 36x + 2x^2 - 14x + 24 = \\
 &= x^2 \cdot (x^2 - 7x + 12) - 3x \cdot (x^2 - 7x + 12) + 2(x^2 - 7x + 12) = \\
 &= (x^2 - 7x + 12) \cdot (x^2 - 3x + 2) = (x - 3)(x - 4)(x - 1)(x - 2)
 \end{aligned}$$

0 words Powered by Tiny

☒ Simple
☐ Conditional

Save Hint
Cancel

Curriculum

Navigator

Assignments

Usage

Clone

Curricula

CLOSED

DRAFT: 2017-2018

RSM Olympiad

2016: RSM Olympiad

2017: RSM Olympiad

2018: RSM Olympiad

Olympiad 2018

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p 0 words Powered by Tiny

☐ Simple ☒ Conditional

Condition 1: $\frac{1}{4}$ [Edit](#) [Remove](#)

Condition 2: $\sqrt{\frac{1}{4}}$ [Edit](#) [Remove](#)

Condition 3: $\sqrt{\frac{\pi}{4}}$ [Edit](#) [Remove](#)

[Add condition](#)

Save Hint

Cancel