

Expand and simplify

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

	$2x$	-7
$3x$	$6x^2$	$-21x$
5	$10x$	-35

$$6x^2 + 10x - 21x - 35$$

$$6x^2 - 11x - 35$$

Step 1

	$2x$	-7
$3x$		
5		

Step 2

	$2x$	-7
$3x$	$6x^2$	$-21x$
5	$10x$	-35

Step 3

	$2x$	-7
$3x$	$6x^2$	$-21x$
5	$10x$	-35

$6x^2 + 10x - 21x - 35$

Quietly in pairs

Take turns explaining each step until you both understand it all then answer these:

1. Would it have mattered if $2x - 7$ was down the side and $3x + 5$ along the top instead?

2. Why do you think some students incorrectly put -2 in the bottom-right box?

3. Why didn't the $6x^2$ also get combined with the x -terms in step 4?

Your turn

Expand and simplify...

a) $(x - 1)(2x + 3)$

b) $(5x - 4)(3x - 7)$

c) Make your own questions with answers which include $12x^2$

Worked Examples Higher Maths

Ralph Riddiough, John Mccoll



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Table of Contents Worked Examples Higher Maths

1. Understanding the eBook Worked Examples Higher Maths
 - The Rise of Digital Reading Worked Examples Higher Maths
 - Advantages of eBooks Over Traditional Books
2. Identifying Worked Examples Higher Maths
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Worked Examples Higher Maths
 - User-Friendly Interface
4. Exploring eBook Recommendations from Worked Examples Higher Maths
 - Personalized Recommendations
 - Worked Examples Higher Maths User Reviews and Ratings
 - Worked Examples Higher Maths and Bestseller Lists
5. Accessing Worked Examples Higher Maths Free and Paid eBooks
 - Worked Examples Higher Maths Public Domain eBooks
 - Worked Examples Higher Maths eBook Subscription Services
 - Worked Examples Higher Maths Budget-Friendly Options
6. Navigating Worked Examples Higher Maths eBook Formats

- ePub, PDF, MOBI, and More
 - Worked Examples Higher Maths Compatibility with Devices
 - Worked Examples Higher Maths Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Worked Examples Higher Maths
 - Highlighting and Note-Taking Worked Examples Higher Maths
 - Interactive Elements Worked Examples Higher Maths
 8. Staying Engaged with Worked Examples Higher Maths
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Worked Examples Higher Maths
 9. Balancing eBooks and Physical Books Worked Examples Higher Maths
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Worked Examples Higher Maths
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Worked Examples Higher Maths
 - Setting Reading Goals Worked Examples Higher Maths
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Worked Examples Higher Maths
 - Fact-Checking eBook Content of Worked Examples Higher Maths
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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