

Dividing Polynomials

Divide Polynomials by Monomials To divide a polynomial by a monomial, divide each term of the polynomial by the monomial.

Example 1 Find $(4r^2 - 12r) \div (2r)$.

$$\begin{aligned}(4r^2 - 12r) \div 2r &= \frac{4r^2 - 12r}{2r} \\&= \frac{4r^2}{2r} - \frac{12r}{2r} && \text{Divide each term.} \\&= \frac{\cancel{4}r^{\cancel{2}}}{\cancel{2}r} - \frac{\cancel{12}r^{\cancel{1}}}{\cancel{2}r} && \text{Simplify.} \\&= 2r - 6 && \text{Simplify.}\end{aligned}$$

Example 2 Find $(3x^2 - 8x + 4) \div (4x)$.

$$\begin{aligned}(3x^2 - 8x + 4) \div 4x &= \frac{3x^2 - 8x + 4}{4x} \\&= \frac{3x^2}{4x} - \frac{8x}{4x} + \frac{4}{4x} \\&= \frac{\cancel{3}x^{\cancel{2}}}{\cancel{4}x} - \frac{\cancel{8}x}{\cancel{4}x} + \frac{4}{4x} \\&= \frac{3x}{4} - 2 + \frac{1}{x}\end{aligned}$$

Exercises

Find each quotient.

1. $(x^2 + 2x^2 - x) \div x$

3. $(x^2 + 3x - 4) \div x$

5. $(3x^3 + 15x^2 - 21x) \div (3x)$

7. $(8y^4 + 16y^2 - 4) \div (4y^2)$

9. $\frac{15x^2 - 25x + 30}{5}$

11. $\frac{6x^2 + 9x^2 + 9}{3x}$

13. $\frac{m^3p^2 - 5mp + 6}{m^2p^2}$

15. $\frac{6a^2b^2 - 8ab + 12}{2a^2}$

17. $\frac{9x^2y^2z - 2xyz + 12x}{xy}$

2. $(2x^3 + 12x^2 - 8x) \div (2x)$

4. $(4m^2 + 6m - 8) \div (2m^2)$

6. $(8m^2p^2 + 4mp - 8p) \div p$

8. $(16x^2y^2 + 24xy + 5) \div (xy)$

10. $\frac{10a^2b + 12ab - 8b}{2a}$

12. $\frac{m^2 - 12m + 42}{3m^2}$

14. $\frac{p^2 - 4pr + 6r^2}{pr}$

16. $\frac{2x^2y^2 - 4x^2y^2 - 8xy}{2xy}$

18. $\frac{2a^2b^2 + 8a^2b^2 - 10ab + 12}{2a^2b^2}$

Algebra 2 Dividing Polynomials Id 1 Answers

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Algebra 2 Dividing Polynomials Id 1 Answers:

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Algebra Teacher's Activities Kit Judith A. Muschla, Gary R. Muschla, Erin Muschla-Berry, 2015-12-21 Help your students succeed with classroom ready standards based activities The Algebra Teacher's Activities Kit 150 Activities That Support Algebra in the Common Core Math Standards helps you bring the standards into your algebra classroom with a range of engaging activities that reinforce fundamental algebra skills This newly updated second edition is formatted for easy implementation with teaching notes and answers followed by reproducibles for activities covering the algebra standards for grades 6 through 12 Coverage includes whole numbers variables equations inequalities graphing polynomials factoring logarithmic functions statistics and more and gives you the material you need to reach students of various abilities and learning styles Many of these activities are self correcting adding interest for students and saving you time This book provides dozens of activities that Directly address each Common Core algebra standard Engage students and get them excited about math Are tailored to a diverse range of levels and abilities Reinforce fundamental skills and demonstrate everyday relevance Algebra lays the groundwork for every math class that comes after it so it's crucial that students master the material and gain confidence in their abilities The Algebra Teacher's Activities Kit helps you face the challenge well armed with effective activities that help students become successful in algebra class and beyond

Thinking Algebraically: An Introduction to Abstract Algebra Thomas Q. Sibley, 2021-06-08 Thinking Algebraically presents the insights of abstract algebra in a welcoming and accessible way It succeeds in combining the advantages of rings first and groups first approaches while avoiding the disadvantages After an historical overview the first chapter studies familiar examples and elementary properties of groups and rings simultaneously to motivate the modern understanding of algebra The text builds intuition for

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specifically for the Edexcel AS and A Level exams offering worked examination questions and examples with hints on answering examination questions successfully test yourself section key points reinforcing what students have learned and answers to all questions **Fundamental Concepts of Abstract Algebra** Gertrude Ehrlich, 2013-05-13 This undergraduate text presents extensive coverage of set theory groups rings modules vector spaces and fields It offers numerous examples definitions theorems proofs and practice exercises 1991 edition **Algebra in Action: A Course in Groups, Rings, and Fields** Shahriar Shahriar, 2017-08-16 This text based on the author's popular courses at Pomona College provides a readable student friendly and somewhat sophisticated introduction to abstract algebra It is aimed at sophomore or junior undergraduates who are seeing the material for the first time In addition to the usual definitions and theorems there is ample discussion to help students build intuition and learn how to think about the abstract concepts The book has over 1300 exercises and mini projects of varying degrees of difficulty and to facilitate active learning and self study hints and short answers for many of the problems are provided There are full solutions to over 100 problems in order to augment the text and to model the writing of solutions Lattice diagrams are used throughout to visually demonstrate results and proof techniques The book covers groups rings and fields In group theory group actions are the unifying theme and are introduced early Ring theory is motivated by what is needed for solving Diophantine equations and in field theory Galois theory and the solvability of polynomials take center stage In each area the text goes deep enough to demonstrate the power of abstract thinking and to convince the reader that the subject is full of unexpected results

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