

Rational expression worksheet

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challenge questions at the sheets end. Plus each one comes with an answer key. Simplify the following rational expressions. 1) $4x^3/8x^{22}$ (5x + 20)/(7x + 28)3) (3x + 9)/(3x + 15)4) (x - 3)/(x2 - 9)5) (x2 - 2x + 1)/(x - 1)6) (x2 + 7x + 10)/(x2 - 4)7) (9x2 - 25y2)/(3x2 - 5xy)8) (6x2 - 54)/(x2 + 7x + 12)9) (2 - x)/(x2 + 4x - 12)10) (64a3 + 125b3)/(4a2b + 5ab2)11) (x4 - 16)/(x2 + 5x + 6)12) (v3 + 11v2 + 18v)/(v2 + v - 2)13) (2x3 + 16x2 + 24x)/(x2 - x - 6)14) (xy + 3x - 2y - 6)/(y2 + y - 6)15) (ax - ay + bx - by)/(ax - ay - bx + by) 1. Answer := $4x^3/8x^2 = (1/2)x^3 - 2 = (1/2)x = x/2$. Answer := $(5x + 20)/(7x + 28) = 5(x + 4)/7(x + 4) = 5/73$. Answer := $(3x + 9)/(3x + 15) = 3(x + 3)/3(x + 5) = (x + 3)/(x + 5) = 1$. Answer := $(x - 3)/(x2 - 9) = (x - 3)/[(x + 3)(x - 3)] = 1/(x + 3) = 1/5$. Answer := $(x - 3)/(x2 - 32) = (x - 3)/[(x + 3)(x - 3)] = 1/(x + 3) = 1/5$. Answer := $(x - 1)/2/(x - 1) = (x - 1) = 1$. Answer := $(x2 - 2x(1) + 12)/(x2 - 4) = [(x + 5)(x + 2)]/[(x - 2)(x - 2)] = (x + 5)/(x - 2) = 7$. Answer := $(9x2 - 25y2)/(3x2 - 5xy) = [(3x2 - 5y2)]/x(3x - 5y) = [(3x + 5y)(3x - 5y)]/x(3x - 5y) = (3x + 5y)/x = 8$. Answer := $(6x2 - 54)/(x2 + 7x + 12) = 6(x2 - 9)/[(x + 3)(x + 4)] = 6(x2 - 32)/[(x + 3)(x + 4)] = 6(x - 3)/(x + 4) = 9$. Answer := $(2 - x)/(x2 + 4x - 12) = (2 - x)/[(x + 6)(x - 2)] = -(x - 2)/[(x + 6)(x - 2)] = -1/(x + 6) = 10$. Answer := $(64a3 + 125b3)/(4a2b + 5ab2) = [(4a3 + 5b3)][(4a2b + 5ab2)]/[(4a2b + 5ab2)(4a2b + 5ab2)] = [(4a3 + 5b3)][(4a2b + 5ab2)]/[(4a2b + 5ab2)^2] = [(4a3 + 5b3)][(4a2b + 5ab2)]/[(16a2 - 20ab + 25b2)ab] = [(x4 - 16)/(x2 + 5x + 6)][[(x2 + 4)(x2 - 4)]/[(x + 2)(x + 3)]][[(x2 + 4)(x2 - 22)]/[(x + 2)(x + 3)]][[(x2 + 4)(x + 2)(x - 2)]/[(x + 2)(x + 3)]][[(x2 + 4)(x - 2)]/[(x + 3)12]] = [(v3 + 11v2 + 18v)/(v2 + v - 2)][[v(v + 9)(v + 2)]/[(v + 2)(v - 1)]][v(v + 9)/(v - 1) = v(v + 9)/(v - 1) = 13] = [(2x3 + 16x2 + 24x)/(x2 - x - 6)][[2x(x2 + 8x + 12)]/[(x2 - x - 6)][2x(x + 6)(x + 2)]/[(x - 3)(x + 2)] = 2x(x + 6)/(x - 3) = 14] = [(xy + 3x - 2y - 6)/(y2 + y - 6)][[x(y + 3) - 2(y + 3)]/[(y + 3)(y - 2)] = (x - 2)/(y - 2) = 15] = [(ax - ay + bx - by)/(ax - ay - bx + by)][a(x - y) + b(x - y)]/[(a(x - y) - b(x - y))] = [a(x - y)(a + b)]/[(x - y)(a - b)] = (a + b)/(a - b) Kindly mail your feedback to v4formath@gmail.com We always appreciate your feedback. ©All rights reserved. onlinemath4all.com Rational Expressions Partner Worksheet In this worksheet students will work together and compare answers to simplify rational expressions. Each student will work one column of 4 problems. When they are finished, they compare answers. Even though the problems in each column are different, the students should get the same answer for each problem number. An answer key is included. You may also be interested in: Rational Expressions and Equations Activity Bundle Simplifying Rational Expressions Flipbook Rational Expressions Card Sort Rational Expressions Scavenger Hunt Be the first to know about my new discounts, freebies, and products! Look for the green star near the top of any page within my store and click it to become a follower. You will then receive customized email updates about my store. If you have any questions or comments please email me at: mrseteachesmath@gmail.com. Lesson / Templates / Lesson 1 Review Adding, Subtracting and Multiplying Polynomials W: ALL Lesson 3 Simplifying Rational Expressions W: #1def, 2bd, 3ad, 4cd, 5 all, 7c, 8a W: 5 all, 6def Lesson 4 Multiplying and Dividing Rational Expressions Worksheet: #3ab, 4all, 6 Challenge: #7 Lesson 5 Adding and Subtracting Polynomials (Factoring Denominators) Worksheet: #2, 3 (EEO), 4all, 6all Page 94 #8-10 Lesson 7 Equivalency of Rational Expressions Worksheet: All Review Worksheet: All Simplify the following rational expressions. 1) $4x^3/8x^{22}$ (5x + 20)/(7x + 28)3) (3x + 9)/(3x + 15)4) (x - 3)/(x2 - 9)5) (x2 - 2x + 1)/(x - 1)6) (x2 + 7x + 10)/(x2 - 4)7) (9x2 - 25y2)/(3x2 - 5xy)8) (6x2 - 54)/(x2 + 7x + 12)9) (2 - x)/(x2 + 4x - 12)10) (64a3 + 125b3)/(4a2b + 5ab2)11) (x4 - 16)/(x2 + 5x + 6)12) (v3 + 11v2 + 18v)/(v2 + v - 2)13) (2x3 + 16x2 + 24x)/(x2 - x - 6)14) (xy + 3x - 2y - 6)/(y2 + y - 6)15) (ax - ay + bx - by)/(ax - ay - bx + by) 1. Answer := $4x^3/8x^2 = (1/2)x^3 - 2 = (1/2)x = x/2$. Answer := $(5x + 20)/(7x + 28) = 5(x + 4)/7(x + 4) = 5/73$. Answer := $(3x + 9)/(3x + 15) = 3(x + 3)/3(x + 5) = (x + 3)/(x + 5) = 1$. Answer := $(x - 3)/(x2 - 9) = (x - 3)/[(x + 3)(x - 3)] = 1/(x + 3) = 1/5$. Answer := $(x - 3)/(x2 - 32) = (x - 3)/[(x + 3)(x - 3)] = 1/(x + 3) = 1/5$. Answer := $(x - 1)/2/(x - 1) = (x - 1) = 1$. Answer := $(x2 - 2x(1) + 12)/(x2 - 4) = [(x + 5)(x + 2)]/[(x - 2)(x - 2)] = (x + 5)/(x - 2) = 7$. Answer := $(9x2 - 25y2)/(3x2 - 5xy) = [(3x2 - 5y2)]/x(3x - 5y) = [(3x + 5y)(3x - 5y)]/x(3x - 5y) = (3x + 5y)/x = 8$. Answer := $(6x2 - 54)/(x2 + 7x + 12) = 6(x2 - 9)/[(x + 3)(x + 4)] = 6(x2 - 32)/[(x + 3)(x + 4)] = 6(x - 3)/(x + 4) = 9$. Answer := $(2 - x)/(x2 + 4x - 12) = (2 - x)/[(x + 6)(x - 2)] = -(x - 2)/[(x + 6)(x - 2)] = -1/(x + 6) = 10$. Answer := $(64a3 + 125b3)/(4a2b + 5ab2) = [(4a3 + 5b3)][(4a2b + 5ab2)]/[(4a2b + 5ab2)(4a2b + 5ab2)] = [(4a3 + 5b3)][(4a2b + 5ab2)]/[(4a2b + 5ab2)^2] = [(4a3 + 5b3)][(4a2b + 5ab2)]/[(16a2 - 20ab + 25b2)ab] = [(x4 - 16)/(x2 + 5x + 6)][[(x2 + 4)(x2 - 4)]/[(x + 2)(x + 3)]][[(x2 + 4)(x2 - 22)]/[(x + 2)(x + 3)]][[(x2 + 4)(x + 2)(x - 2)]/[(x + 2)(x + 3)]][[(x2 + 4)(x - 2)]/[(x + 3)12]] = [(v3 + 11v2 + 18v)/(v2 + v - 2)][[v(v + 9)(v + 2)]/[(v + 2)(v - 1)]][v(v + 9)/(v - 1) = v(v + 9)/(v - 1) = 13] = [(2x3 + 16x2 + 24x)/(x2 - x - 6)][[2x(x2 + 8x + 12)]/[(x2 - x - 6)][2x(x + 6)(x + 2)]/[(x - 3)(x + 2)] = 2x(x + 6)/(x - 3) = 14] = [(xy + 3x - 2y - 6)/(y2 + y - 6)][[x(y + 3) - 2(y + 3)]/[(y + 3)(y - 2)] = (x - 2)/(y - 2) = 15] = [(ax - ay + bx - by)/(ax - ay - bx + by)][a(x - y) + b(x - y)]/[(a(x - y) - b(x - y))] = [a(x - y)(a + b)]/[(x - y)(a - b)] = (a + b)/(a - b) Kindly mail your feedback to v4formath@gmail.com We always appreciate your feedback. ©All rights reserved. onlinemath4all.com Rational Expressions Partner Worksheet In this worksheet students will work together and compare answers to simplify rational expressions. Each student will work one column of 4 problems. When they are finished, they compare answers. Even though the problems in each column are different, the students should get the same answer for each problem number. An answer key is included. You may also be interested in: Rational Expressions and Equations Activity Bundle Simplifying Rational Expressions Flipbook Rational Expressions Card Sort Rational Expressions Scavenger Hunt Be the first to know about my new discounts, freebies, and products! Look for the green star near the top of any page within my store and click it to become a follower. You will then receive customized email updates about my store. If you have any questions or comments please email me at: mrseteachesmath@gmail.com. Mathworksheetsgo.com is now a part of Mathwarehouse.com. All of your worksheets are now here on Mathwarehouse.com. Please update your bookmarks! Enjoy these free printable sheets focusing on rational expressions, typically covered unit in Algebra 2. Each worksheet has model problems worked out step by step, practice problems, as well as challenge questions at the sheets end. Plus each one comes with an answer key. Lesson / Templates / Lesson 1 Review Adding, Subtracting and Multiplying Polynomials W: ALL Lesson 3 Simplifying Rational Expressions W: #1def, 2bd, 3ad, 4cd, 5 all, 7c, 8a W: 5 all, 6def Lesson 4 Multiplying and Dividing Rational Expressions Worksheet: #3ab, 4all, 6 Challenge: #7 Lesson 5 Adding and Subtracting Polynomials (Factoring Denominators) Worksheet: #1acef, 3-6all Text: pg 94 #7, 11 Lesson 6 Adding and Subtracting Polynomials (Factoring Denominators) Worksheet: #2, 3 (EEO), 4all, 6all Page 94 #8-10 Lesson 7 Equivalency of Rational Expressions Worksheet: All Review Worksheet: All$$

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