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Extra Practice **10.3** Name _____

In 1-4, simplify the expression.

- 1. $\frac{x^2 - 16}{x^2 + x - 12}$
- 2. $\frac{x^2 - 2x - 15}{x^2 - 4x - 5}$
- 3. $\frac{x^2 - 8x + 12}{x^2 + 3x - 10}$
- 4. $\frac{x^2 - 2x + 1}{x^2 - 1}$

In 5-12, multiply the expressions and simplify.

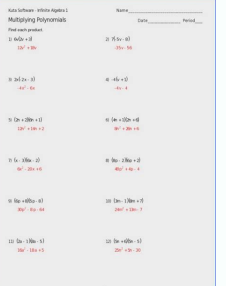
- 5. $\frac{4x^2y^3}{x^3y^4} \cdot \frac{xy}{20x^2}$
- 6. $\frac{81x^5}{y^2} \cdot \frac{x^2}{36x^5y}$
- 7. $\frac{16x^3y^7}{3x} \cdot \frac{9xy^2}{64x^2y}$
- 8. $\frac{21x^{10}y^5}{5x^2} \cdot \frac{x^4}{35y^4}$
- 9. $\frac{3x^2 - 12}{5x - 10} \cdot \frac{1}{2x + 4}$
- 10. $\frac{x^3 - 7x - 8}{3x^2 - 24x} \cdot \frac{4x^3}{x^2 - 4}$
- 11. $(x - 5) \cdot \frac{x^2 - 36}{x^2 + 11x + 30}$
- 12. $\frac{x^3 + 4x - 12}{x^4 + 9x^3 + 18x^2} \cdot 6x^4$

In 13-20, divide the expressions and simplify.

- 13. $\frac{x^2 - 3x + 2}{25x} \div \frac{x - 1}{5x^2}$
- 14. $\frac{5x^2 - 20}{25x^2} \div \frac{x^2 + 6x + 8}{x^2 + 11x + 24}$
- 15. $(x - 7) \div \frac{x^2 + 9x + 14}{x^2 + 5x + 6}$
- 16. $(x^3 - 5x - 30) \div \frac{x^2 - 10x + 9}{x - 1}$
- 17. $\frac{x^2 - 9x - 22}{x^2 + 5x - 24} \div \frac{x + 2}{x - 3}$
- 18. $\frac{7x^2 - 21x}{x^2 - 2x - 35} \div \frac{x^2}{x - 7}$
- 19. $\frac{x - 2}{x^2 + 7x - 18} \div \frac{x^2 - 6x^2 - 27x}{x^2 - 8x - 9}$
- 20. $(x^2 - 10x - 24) \div \frac{x^2 - 144}{3x - 36}$

In 21-24, perform the operation and simplify.

- 21. $\frac{x^2 - 3x + 2}{x + 2} \cdot \frac{3x}{x - 2} \cdot \frac{2x + 4}{5x^2 - 5x}$
- 22. $\frac{x^2 - 100}{4x^2} \cdot \frac{x^3}{x^4 - 16x^2} \cdot \frac{50x}{5x} \div \frac{(x - 10)^2}{5x}$
- 23. $(x^2 + 7x - 30) \div \frac{x^2 + 5x - 24}{x + 2} \cdot \frac{x + 2}{x^2 + 3x + 2}$
- 24. $(x^2 + 10x^2) \div \left(\frac{x^2 - 9}{x + 3} \cdot \frac{x + 10}{x^2 + 7x + 12} \right)$



High school PDF worksheets include simple words problems to find the area and volume of geometric shapes. Examples of Trinomes Ratings: $3x^2 + 2x + 1$, $7x^2 + 4x + 4$, $5x^2 + 6x + 9$. This is not a quadratic trinomial because there is an exponent which is greater than 2. This is not a quadratic trinomial because there is no exponent of 2. Enter Expression, eg $(X^2 - and ^ 2) / (XY)$ Explore these calculation sheets of multiplier polynomials printable with response keys that consist of a set of polynomials that will multiply by binomials, trinomials and polynomials; that involve unique and multivariable elements. It will end with 9 such terms in the product. Multiply monoms by monoms, binomials and polynomials. Determine the values of unknown constants or coefficients in the given polyno-emotional equations also. Multiply Binomials Using the method Foil The foil method makes the binomial multiplication simple and easy. This chemula only works when $a = 1$. Printable worksheets are recommended for high school. Multiply Trinomios - Variable Locate to multiply trinomes quickly and accurately, using the distributive property and the product rule for exponents. In fact, this is not even a trinomy because there are 2 terms $5x^3 + 6x^2 + 9$. This is not a quadratic trinomy because there is an exponent that is greater than 2. Note: For the rest of this page, 'Factoring Trinomials' will refer to 'Factoring Quadratic Trinomials'. Remember a negative value multiplied by a negative value is a positive value) Step 3 Identify that pair of factors of the previous step Sum up to Blue {4} Step 4 Replace that pair of factors in binomials Step 5 $(x + 3)(x + 1) = x^2 + 4x + 3$ Factor the trinomial less than $x^2 + 5x + 6$ Step 1 Identify a, b and c in the trinomial $ax^2 + bx + c$ A = 1 BLUE {B = 5} RED {C = 6} Step 2 Enter all the factor pairs of Red {6} Step 3 Identify what pair of factors from the previous Step Sum up to BLUE 5 STEP 4 Replace that pair of factors into two binomials Step 5 $(x + 2)(x + 3) = x^2 + 5x + 6$ Factor The trinomial below $x^2 - 2x - 3$ STEP 1 Identify A, B and C in the Trinomial $Ax^2 + Bx + C$ A = 1 BLUE {B = -2} RED {C = -3} STEP 2 Enter all the factor pairs of Red {-3} (Yes, "the negative sign matters!) (Note: Since C is negative, we just need to think of pairs that have 1 negative factor and 1 positive factor. To continue enjoying our site, we ask you to confirm your identity as a human. Remember that a negative time is a positive is a negative value) Identify which pair of factors in the above sums add up to Blue {-2} STEP 4 Replace that pair of factors in two binomials Step 5 $(x + 2)(x - 3) = x^2 - 2x - 3$ Factor The trinomial below $x^2 - 5x + 6$ s TEP 1 Identify A, B and C in the trinomial $Ax^2 + Bx + C$ A = 1 Blue {B = 5} RED {C = 6} Step 2 Write down the factor pairs of Red 6 (NOTE: Since 6 is positive, we just need to think of pairs that are positive or both negative. Solve these binomial multipliers: mine worksheets multiplying the binomials in the order: first, external, internal and last. The grade of a square trinomial should be '2'. Multiplication polynomials using the box's mTodo that can be familiarized with how multiply polynomials using the box's mA© Todo. Step 5 $(x - 2)(x - 3) = x^2 - 5x + 6$ factor The bottom triangle $x^2 - 2x - 15$ Step 1 Identify A, B and C in the triangle $Ax^2 + Bx + C$ A = 1 BLUE {B = -2} RED {C = -15} Step 2 Enter the pairs of Red {-15} (Note: Since C

is negative, we only need to think about pairs that have 1 negative factor and 1 positive factor. Enter Expression, Expression, (x^2-y^2) / (x-y) Trinomial Factor Spreadsheet Trinomial Factor Calculator Expression. A trinomial is a polynomial with 3 terms. Multiply Polynomials a Word Problems Calculate the area and volume of the geometric shapes by replacing the parameters known as length, width, base, height in the appropriate formulas. Remember to simplify it by combining similar terms. (If you need help factoring trinomials when \$\$ to my 1 \$\$, then go here.) Formula steps Identify a, \$\$ \blue b \$\$, and \$\$\red c \$\$ in trinomial \$\$ ax^2 + \blue bx + \red c \$\$ Write all pairs of factors of \$\$\red c \$\$ Identify which pair of factors from the previous step add up to \$\$ \blue b \$\$ Replacing pairs of factors in two binomials Factor \$\$ x^2 + 5x + 4 \$\$ Step 1 Identify a, b, and c on the trinomial axis 2 + bx + c \$\$ a = 1 \ \blue { b = 5 } \ \red { c = 4 } \$\$ Step 2 Enter all the factors of \$\$ \red c \$\$ are multiplied to \$\$\red { \boxed {4} } \$\$ (Note: since \$\$\red 4 \$\$ is positive, we only need to think of pairs that are positive or negative. PDF worksheets have squares or squares to multiply monomials, binomials and polynomials. Thank you very much for your cooperation. Binomial Multiplication - Multivariate Learn about multivariable binomials with these printable worksheets for high school! Group the coefficients and variables, apply the rule of the product of the exponents, and find the product of the two binomials. Remember that a negative multiplied by a negative is a positive) Step 3 Identify which pair of factors from the previous step add up to \$\$ \blue {-5} \$\$ Step 4 Replace that pair of factors into two binomials . In other words, there must be an exponent of '2' and that exponent must be the largest exponent. (15 Worksheets) In order to continue to enjoy our site, we ask you to confirm your identity as a human. (The difference is that a quadratic trinomial has a degree of 2) It is always easier to understand a new concept by looking at an image of a new product rieht enimreted ot rehtegot smret ekil eht tup ,slaimonirt owt eht yplituM .1 si 2x fo tnorf ni tneiciffeoc eht revenehw hcaorppa siht esu lliw ew ,sdrow rehto ni .slaimonirt citardauq no sucof lliw egap sihT .evitagen htob ro evitisp htob rehtie era taht sriap tuoba kniht ot deen ylno ew evitisp si \$\$ 3 der\ \$\$ ecnis :etoN(\$\$ 3 der\ \$\$ fo sriap rotcaf lla nwod etHW 2 petS \$\$ }3 = c {der\ \ } 4= b { eulb \ } 1 = a \$\$ \$ \$ c + xb + 2^x\$a\$\$ laimonirt eht ni c dna b ,a yftinedI 1 petS \$\$3 + x4 + 2^x \$\$:laimonirt gniwolof eht rotcaF \$\$ 4 + x5 + 2^x = j1 + x(j4 + x(\$\$ 5 petS slaimonib owt otni riap rotcaf taht etutitsbuS 4 petS \$\$b eulb) \$\$ of pu smus pets suoiverp eht morf riap rotcaf hcihw yftinedI 3 petS ,mret elgnis a htiw slaimonylop htiw gnlaed steeskrow slaimonom gniyplitum eseht htiw gnipperp traIS slaimonoM fo noitaclipitluM leerf rof steeskrow eseht fo emos ssecca gnipuoRG yb rotcaF ot woH gnirotaF fo sdohteM scitaradaQ gniivloS :sknil ,detaleR rotaluelac laimonirT rotcaF teeskrow laimonirT rotcaF \$\$ 51 - x2 - 2^x = j5 - x(j3 + x(\$\$ 5 petS slaimonib owt otni riap rotcaf taht etutitsbuS 4 petS \$\$ }2-(eulb) \$\$ of pu smus pets suoiverp eht morf riap rotcaf hcihw yftinedI 3 petS).evitagen a si evitisp a semit evitagen a rebmemeR .evitisp a si evitagen a semit evitagen a rebmemeR .dnoces eht fo mret yreve htiw laimonirt tsrif eht fo mret hcae gnitaert yb slaimonirt etairaviltum owt yplituM elbarairvtluM - slaimonirT gniyplituM ,srotcaf evitagen eseht redisnoc ot evah od ew os... 4 evitisp si \$\$ 2- tod\ 2-\$ \$ uoy swohs thgir eht no trach eht sa .egap rep elbarair elgnis htiw snoisserpxe euguin thgie fo gnisirpmoc steeskrow laimonib yb laimonib fo noitaclipitlum eseht ni ,laimonib dnoces eht fo mret yreve htiw laimonib tsrif eht fo mret hcae yplituM elbariraV elgnisS - slaimoniB gniyplituM }steeskrow12(loot slaimonom gnissim eht dnif .tsrif taht od dna nwod llorcs tnaw thgim uoy os elpmaxe

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