

UNIT 7

LESSON 1

Rational Expressions: a ratio (fraction) of two polynomials

Simplifying Rational Expressions: $(x^2 + 11x + 18) / (x^2 + x - 2)$

- 1) Factor the numerator and denominator: $(x + 2)(x + 9) / (x + 2)(x - 1)$
- 2) Cancel out like terms: $(x + 2)(x + 9) / (x + 2)(x - 1)$
FINAL ANSWER: $(x + 9) / (x - 1)$

Multiplying Rational Expressions: $((x^2 - 9)/(x^2 + 6x + 9)) * ((x^2 + x - 2)/(x^2 - 1))$

- 1) Factor the numerator and denominator:
 $((x - 3)(x + 3)/(x + 3)(x + 3)) * ((x + 2)(x - 1)/(x + 1)(x - 1))$
- 2) Cancel like terms: $((x - 3)(x + 3)/(x + 3)(x + 3)) * ((x + 2)(x - 1)/(x + 1)(x - 1))$
FINAL ANSWER: $(x - 3) / (x + 3) * (x + 2) / (x + 1)$

Dividing Rational Expressions: $((x^2 - 4x - 21)/(x^2 - 3x - 10)) / ((x^2 + 4x + 3)/(x^2 - 4x - 5))$

- 1) Swap the numerator and denominator of the second fraction:
 $((x^2 - 4x - 21)/(x^2 - 3x - 10)) / ((x^2 - 4x - 5)/(x^2 + 4x + 3))$
- 2) Factor the numerator and denominator:
 $((x + 3)(x - 7)/(x + 2)(x - 5)) / ((x + 1)(x - 5)/(x + 3)(x + 1))$
- 3) Cancel like terms from all rational expressions:
 $((x + 3)(x - 7)/(x + 2)(x - 5)) / ((x + 1)(x - 5)/(x + 3)(x + 1))$
FINAL ANSWER: $(x - 7) / (x + 2)$

Adding/Subtracting Rational Expressions: $\frac{1}{5} + \frac{2}{7} = \frac{17}{35}$

- 1) Make the denominators the same:
 $1 \cdot 7 / 5 \cdot 7 + 2 \cdot 5 / 7 \cdot 5 = 17 / 35$
- 2) Add the numerators: $7 / 35 + 10 / 35 = 17 / 35$

Finding the LCD(Least Common Denominator):

EX 1 - $7/6x + 5/8x$

- 1) Factor out the denominators: $6x = 2 * 3 * x$ $8x = 2 * 2 * 2 * x = 2^3 x$
- 2) Pick the numbers with the highest degree to multiply: $(2^3)(3)(x) = 24x$
- 3) Factor out the denominator (do not include variable): $6 = 2(3)$ $8 = 4(2)$
- 4) Pick out the biggest numbers of each denominator to multiply with the other fraction's numerator: $7 \cdot 4 = 28$ and $5 \cdot 3 = 15$
FINAL ANSWER: $28/24x + 15/24x = 43/24x$

EX 2 - $1/7x + \frac{1}{5}$

- 1) Multiply the denominators with each other: $1/7x(5) + 2/5(7x)$
- 2) Cross multiply numerators: $1 \cdot 5$ and $2 \cdot 7x$
- 3) $5/7x(5) + 14x/7x(5) = (5 + 14x) / 7x(5)$

Pre Alegbra Final Study Guide

K Morrison



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