

No clickers & yes calculators.

Have out 11.6 practice A worksheet

Get a notebook piece of paper and find the Least Common DENOMINATOR for 19 - 21 all

May 8-9:29 AM

$$\textcircled{19} \quad \frac{x}{3} + \frac{3x}{4} \quad \frac{\quad}{12} + \frac{\quad}{12}$$

$$\textcircled{20} \quad \frac{3y}{5} + \frac{x}{2} \quad \frac{\quad}{10} + \frac{\quad}{10}$$

$$\textcircled{21} \quad \frac{4y}{3} - \frac{x}{2} \quad \frac{\quad}{6} - \frac{\quad}{6}$$

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Algebra 2 – Section 4.4

Add and Subtract Rational Expressions
Zap Zap

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EXAMPLE 1 Add or subtract with like

Perform the indicated operation.

Since it is subtraction, add opp before you start

a. $\frac{7}{4x} + \frac{3}{4x}$

$$\frac{10 \div 2}{4x \div 2} = \frac{5}{2x}$$

b. $\frac{2x}{x+6} + \frac{-5}{x+6}$

$$\frac{2x-5}{x+6}$$

$$x=2$$

a. $\frac{7}{12x} + \frac{5}{12x} =$

$$\frac{12}{12x} = \frac{1}{x}$$

b. $\frac{2}{3x^2} + \frac{1}{3x^2} =$

$$\frac{3 \div 3}{3x^2 \div 3} = \frac{1}{x^2}$$

c. $\frac{4x}{x-2} - \frac{x}{x-2} = \frac{3x}{x-2} = \frac{6}{0}$

$$\frac{3}{-2} = -1.5$$

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25 $\frac{1}{\frac{5x+16}{5} \cdot \frac{5}{5}} + \frac{3}{x+2}$

23 $\frac{5}{2x} + \frac{7}{4x} \quad \frac{4x}{4x} + \frac{4x}{4x}$

24 $\frac{5}{x} - \frac{3}{x^2} \quad \frac{4x}{x^2} - \frac{4x}{x^2}$

5(x+2)

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Adding and Subtracting Rational Expressions

- **Rewrite the fractions** over the new common denominator
- Multiply the numerators by the same thing the denominators were multiplied by to get the common denominator
- Add or Subtract the numerators, remember the **denominators stay the same**
- Now factor the top of the new fraction
- Look for common terms, then use the X to factor
- Cancel any common factors between the top and bottom

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No clickers & yes calculators.

Have out the 4.4 notes on Adding & Subtracting Rational Expressions.

Start working on the 4.2 - 4.4 quiz review

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GUIDED PRACTICE

$$\frac{7.7 \cdot 3}{7 \cdot 4x} + \frac{-1 \cdot 4x}{7 \cdot 4x}$$

$$\frac{21}{28x} + \frac{-4x}{28x}$$

$$\frac{21 - 4x}{28x}$$

$$\frac{-4x + 21}{28x}$$

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GUIDED PRACTICE

8. $\frac{1}{3x-4} + \frac{x}{9x^2-12x}$ $x \cdot x \cdot x = x^2$

$\frac{3x-4}{3x^2(3x-4)} + \frac{x^2}{3x^2(3x-4)}$

$\frac{x^2+3x-4}{3x^2(3x-4)} = \frac{(x+4)(x-1)}{3x^2(3x-4)}$

~~$\frac{-4}{4} - \frac{1}{3}$~~

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GUIDED PRACTICE

9. $\frac{12x}{x^2-x-12} + \frac{5(x+3)}{12x-48}$

$\frac{12x}{(x-4)(x+3)} + \frac{5x+15}{12(x-4)}$

$\frac{12x}{12(x-4)(x+3)} + \frac{5x+15}{12(x-4)(x+3)}$

$\frac{17x+15}{12(x-4)(x+3)}$

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GUIDED PRACTICE

$$10. \frac{(x-2)(x+1)}{\cancel{x^2+4x+4}} + \frac{-6(x+2)}{\cancel{x^2-4}(x+2)}$$

$$(x-2)(x+2)^2 \quad (x-2)(x+2)$$

$$\frac{x^2-x-2}{(x+2)^2(x-2)} + \frac{-6x-12}{(x+2)^2(x-2)}$$

$$\frac{-4}{-7}$$

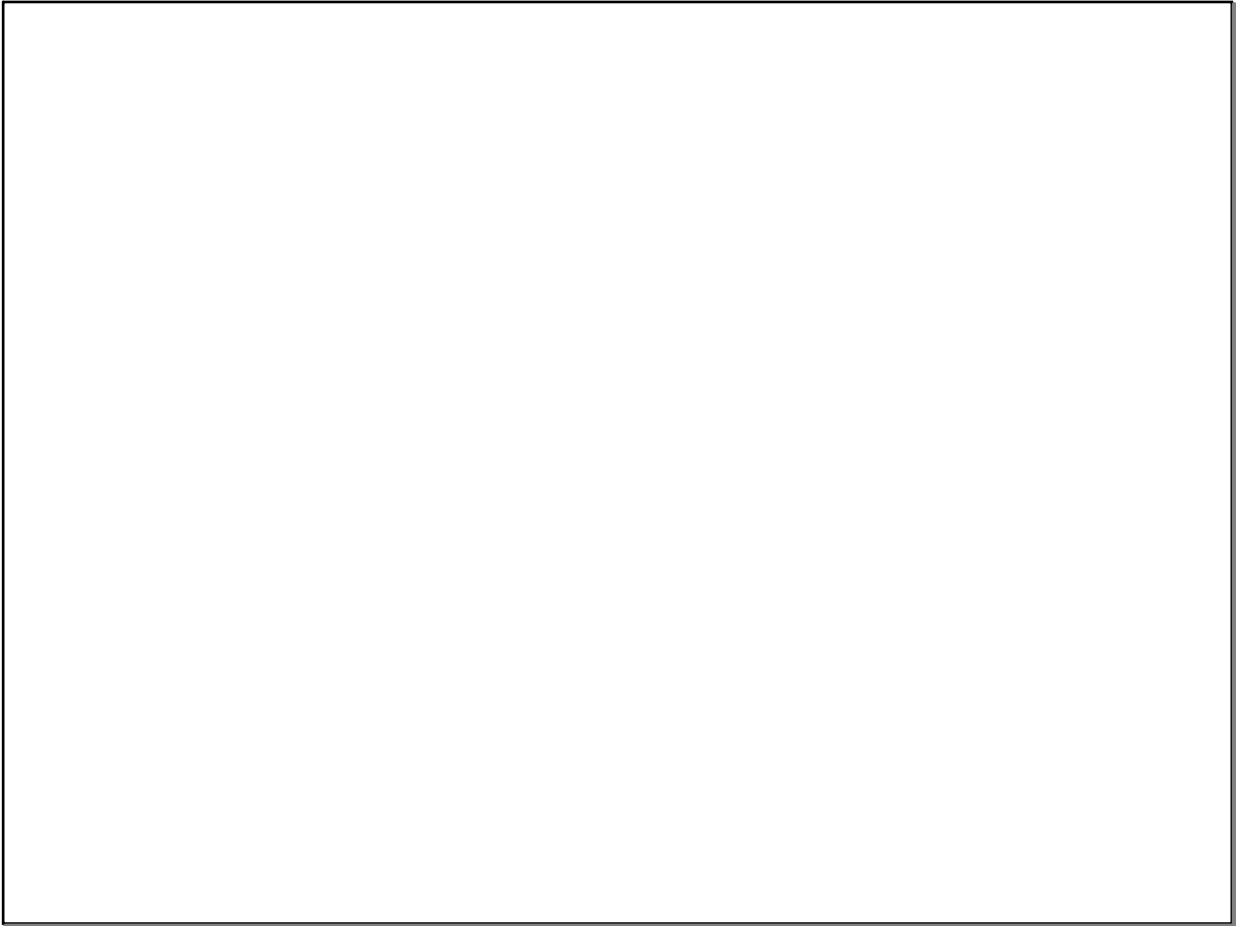
$$\frac{x^2-7x-14}{(x+2)^2(x-2)}$$

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Pg. 152

5-15 odds

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