



What Will I Have To Do On The Quiz...

- multiply rational expressions
- divide rational expressions
- add rational expressions
- subtract rational expressions
- solve rational equations

Apr 27-8:14 AM

$$\frac{(x+1)5x}{(x+1)4x^2} + \frac{7 \cdot 4x^2}{(x+1)4x^2}$$

$$\frac{5x^2 + 5x}{4x^2(x+1)} + \frac{28x^2}{4x^2(x+1)} = \frac{33x^2 + 5x}{4x^2(x+1)}$$

$4x^2 = 0$
 $\sqrt{x^2} = \sqrt{0}$
 $x \neq 0$

$x+1 = 0$
 $x \neq -1$

$\frac{33x+5}{4x(x+1)}$

$x \neq -1$
 $x \neq 0$

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$$(4x+5)(4x-5)$$

$$(4x-5)(x+1)$$



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Multiply.

$$\frac{3m^2 \cdot m^3}{n \cdot 2n^2} = \frac{3m^5}{2n^3} \quad \frac{b-2}{3} \cdot \frac{12}{2(b-2)} \quad \frac{12}{6} = 2$$

$$\frac{n-5}{n(n+4)} \cdot \frac{(n+4)(n+4)}{n^2-3n-10} = \frac{n+4}{n(n+2)}$$

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Divide.

$$\frac{3}{b} \div \frac{b+1}{2b}$$

$$\frac{3}{\cancel{b}} \cdot \frac{2\cancel{b}}{b+1} = \frac{6}{b+1}$$

$$\frac{4gh^3}{h} \div (2g^2 - 8g)$$

$$\frac{4gh^3}{h} \cdot \frac{1}{2g^2 - 8g}$$

$$2g(g-4)$$

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Find the lowest common denominator. State your excluded values.

$$\frac{5}{2m^3} \quad \frac{9}{4m}$$

2: 2, 4, 6, 8, 10, 12
 4: 4, 8, 12
 LCM

$4m^3$
 $m \neq 0$

$$\frac{5}{(m+9)} \quad \frac{9}{(m-2)}$$

$$(m+9)(m-2)$$

$$m \neq -9 \quad m \neq 2$$

$$\frac{5}{3(k+9)} \quad \frac{9}{3(k-4)}$$

$$3(k+9)(k-4)$$

$$k \neq 4$$

$$k \neq -9$$

May 1-2:56 PM

Add or Subtract.

$$\frac{3h}{h^2} + \frac{2h}{h^2} = \frac{5h}{h^2}$$

$$\frac{5}{h}$$

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

$$\frac{x^2+4x}{x^2} + \frac{-2x+4}{x^2}$$

$$\frac{x^2+2x+4}{x^2}$$

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Add.

FOIL

$$\frac{(x+1)5x-30}{x^2-13x+42} + \frac{11(x-6)}{x^2-6x-7}$$

$$\frac{(x+1)(x-6)(x-7)}{(x-6)(x-7)(x+1)} + \frac{(x-7)(x+1)(x-6)}{(x-6)(x-7)(x+1)}$$

$$\frac{5x^2-30x+5x-30}{(x-6)(x-7)(x+1)} + \frac{11x-66}{(x-6)(x-7)(x+1)}$$

$$\frac{5x^2+14x-96}{(x-6)(x-7)(x+1)}$$

Factor + Reduce

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Solve. $\frac{2x^2 + 7x - 15}{\cancel{2x - 3}} = 12$

$$x + 5 = 12$$

$$\begin{array}{r} x + 5 = 12 \\ -5 \quad -5 \\ \hline \end{array}$$

$$x = 7$$

$$\frac{2(7)^2 + 7(7) - 15}{2(7) - 3} \stackrel{?}{=} 12$$

$$\frac{2(49) + 49 - 15}{14 - 3}$$

$$\frac{132}{11}$$

$$12 = 12$$

May 7-1:36 PM

Assignment: 8.2-8.3 Review Worksheet

May 1-11:20 AM