



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

Multiply.

$$\frac{3m^2}{n} \cdot \frac{m^3}{2n^2} = \frac{3m^5}{2n^3}$$

$m+m=2m$
 $m-m=m^2$

$$\frac{b-2}{3} \cdot \frac{2z}{2b-4} = \frac{2z}{3}$$

$$\frac{n-5}{n^2+4n} \cdot \frac{n^2+8n+16}{n^2-3n-10} = \frac{n+4}{n(n+2)}$$

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Divide.

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

$$\frac{24g^2}{n} \div \frac{1}{2g^2-8g} = \frac{24g^2}{n} \cdot \frac{2g^2}{g-4} = \frac{48g^4}{n(g-4)}$$

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Find the lowest common denominator. State your excluded values.

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

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

$$\frac{5}{m+9} + \frac{9}{m-2}$$

$(m+9)(m-2)$ $m \neq -9, 2$

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

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

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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

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

$(x+1)(x-6)(x-7)$ $(x-7)(x+1)(x-6)$

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Solve. $\frac{(2x-3)(x+5)}{2x-3} = 12$

$x+5=12$
 $-5 -5$
 $x=7$

$x \neq 3/2$

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Assignment: 8.2-8.3 Review Worksheet

$6x^3$

$27x^2 + 12x$

$3x(9x+4)$

$x^2 \quad x^2$

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