Climb The Ladder A

Multiply & Divide Rational Expressions

1. $\frac{(-2ab^2)^3}{20ab^4}$

2. $\frac{8y^2(y^6)^3}{4y^{24}}$

3. $\frac{24g^3}{5f^2} \cdot \frac{10(gf)^3}{8g^5f}$

4. $\frac{5r^2}{r^2-4} \cdot \frac{r+2}{10r^5}$

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Climb The Ladder B

Multiply & Divide Rational Expressions

1. $\frac{3m^3 - 3m}{6m^4} \cdot \frac{4m^5}{m+1}$

2. $\frac{x^2 + x - 6}{x^2 - 6x - 27}$

3. $\frac{4x^2 - 12x + 9}{9 - 6x}$

4. $\frac{3a^2 - 24a}{3a^2 + 12a}$

Climb The Ladder B

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Climb The Ladder C

Multiply & Divide Rational Expressions

1. $\dfrac{\dfrac{c^2y}{2d^2}}{\dfrac{-c^6}{5d}}$

2. $\dfrac{\dfrac{a^2-b^2}{4a}}{\dfrac{a+b}{2a}}$

3. $\dfrac{x^2-5x+4}{2x-8} \div (3x^2-3x)$

4. $\dfrac{16a^2+40a+25}{3a^2-10a-8} \div \dfrac{4a+5}{a^2-8a+16}$

Climb The Ladder C

Multiply & Divide Rational Expressions

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2. $\dfrac{\dfrac{a^2-b^2}{4a}}{\dfrac{a+b}{2a}}$

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Climb The Ladder D

Find the LCM of each set of polynomials.

1. $14ab^2, 42bc^3, 18a^2c$

2. $8cdf^3, 28c^2f, 35d^4f^2$

3. $x^2 + 3x, 10x^2 + 25x - 15$

4. $22x^2 + 66x - 220, 4x^2 - 16$

Climb The Ladder D

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Climb The Ladder E

T8-2: I can add and subtract rational expressions.

1. $\frac{3}{x}+\frac{5}{y}$

2. $\frac{3}{8p^2r}+\frac{5}{4p^2r}$

3. $\frac{2}{a+2}-\frac{3}{2a}$

4. $\frac{5}{3b+d}-\frac{2}{3bd}$

Climb The Ladder E

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Climb the Ladder F

T8-2: I can add and subtract rational expressions.

1. $\frac{4z}{z-4}+\frac{z+4}{z+1}$

2. $\frac{1}{x^2+2x+1}+\frac{x}{x+1}$

3. $\frac{n}{n-3}+\frac{2n+2}{n^2-2n-3}$

4. $\frac{3t}{2-x}+\frac{5}{x-2}$

Climb the Ladder F

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2. $\frac{1}{x^2+2x+1}+\frac{x}{x+1}$

3. $\frac{n}{n-3}+\frac{2n+2}{n^2-2n-3}$

4. $\frac{3t}{2-x}+\frac{5}{x-2}$

Climb the Ladder G

T8-3 I can solve rational equations.

1. $\frac{2y}{3} - \frac{y+3}{6} = 2$

2. $\frac{2x+1}{3} - \frac{x-5}{4} = \frac{1}{2}$

3. $\frac{3m+2}{5m} + \frac{2m-1}{2m} = 4$

4. $\frac{4}{x-1} = \frac{x+1}{12}$

Climb the Ladder G

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Climb the Ladder H

T8-3 I can solve rational equations.

1. $8 - \frac{4}{z} = \frac{8z - 8}{z + 2}$

2. $\frac{1}{w + 2} + \frac{1}{w - 2} = \frac{4}{w^2 - 4}$

3. $\frac{-12}{y} = y - 7$

4. $\frac{c + 1}{c - 3} = 4 - \frac{12}{c^2 - 2c - 3}$

Climb the Ladder H

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4. $\frac{c + 1}{c - 3} = 4 - \frac{12}{c^2 - 2c - 3}$