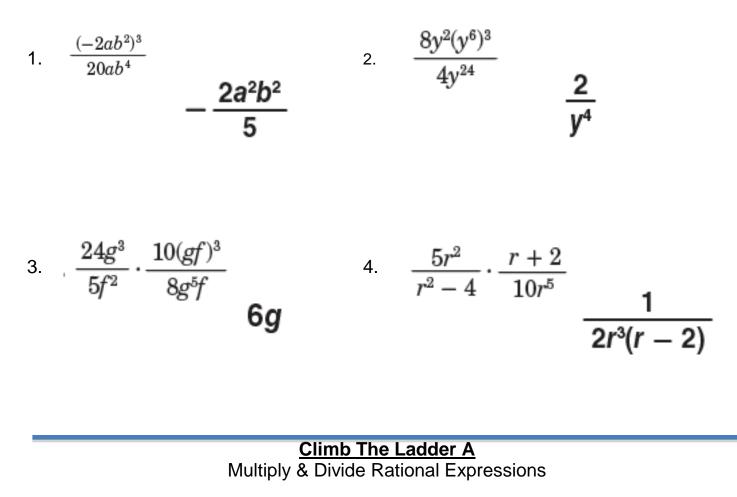
Climb The Ladder A Multiply & Divide Rational Expressions



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

 $-\frac{2a^{2}b^{2}}{5}$
2. $\frac{8y^{2}(y^{6})^{3}}{4y^{24}}$
 $\frac{2}{y^{4}}$
3. $\frac{24g^{3}}{5f^{2}} \cdot \frac{10(gf)^{3}}{8g^{5}f}$
4. $\frac{5r^{2}}{r^{2}-4} \cdot \frac{r+2}{10r^{5}}$
 $\frac{1}{2r^{3}(r-2)}$

Climb The Ladder B Multiply & Divide Rational Expressions

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

2. $\frac{x^2 + x - 6}{x^2 - 6x - 27}$
2m²(m-1)
 $\frac{x - 2}{x - 9}$

3.
$$\frac{4x^2 - 12x + 9}{9 - 6x}$$
4.
$$\frac{3a^2 - 24a}{3a^2 + 12a}$$

$$\frac{3 - 2x}{3}$$

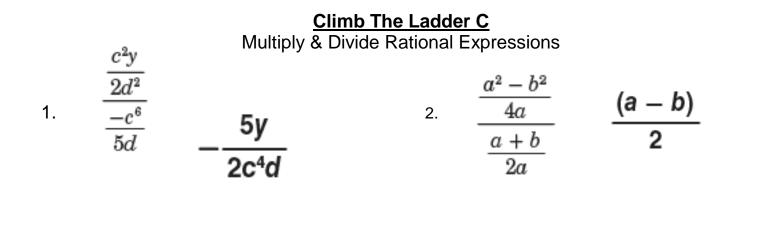
$$\frac{a - 8}{a + 4}$$

Climb The Ladder B Multiply & Divide Rational Expressions

1.
$$\frac{3m^{3} - 3m}{6m^{4}} \cdot \frac{4m^{5}}{m+1}$$
2.
$$\frac{x^{2} + x - 6}{x^{2} - 6x - 27}$$
2m²(m-1)
$$\frac{x - 2}{x - 9}$$
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$$\frac{3a^{2} - 24a}{3a^{2} + 12a}$$

$$\frac{3 - 2x}{3}$$

$$\frac{a - 8}{a + 4}$$



$$\frac{x^{2}-5x+4}{2x-8} \div (3x^{2}-3x) \xrightarrow{4} \frac{16a^{2}+40a+25}{3a^{2}-10a-8} \div \frac{4a+5}{a^{2}-8a+16} \frac{1}{6x} \xrightarrow{4a+5}{(4a+5)(a-4)} \frac{(4a+5)(a-4)}{3a+2}$$

Climb The Ladder C Multiply & Divide Rational Expressions

$$1 \quad \frac{\frac{c^{2}y}{2d^{2}}}{\frac{-c^{6}}{5d}} \quad -\frac{5y}{2c^{4}d} \qquad 2 \quad \frac{\frac{a^{2}-b^{2}}{4a}}{\frac{a+b}{2a}} \quad \frac{(a-b)}{2}$$

$$3 \quad \frac{x^{2}-5x+4}{2x-8} \div (3x^{2}-3x) \quad 4 \quad \frac{16a^{2}+40a+25}{3a^{2}-10a-8} \div \frac{4a+5}{a^{2}-8a+16}$$

$$\frac{1}{6x} \quad (4a+5)(a-4)$$

3a + 2

Climb The Ladder D Find the LCM of each set of polynomials.

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

126a2b2c3

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

280c²d⁴f³

3. $x^2 + 3x$, $10x^2 + 25x - 15$ 4. $22x^2 + 66x - 220, 4x^2 - 16$

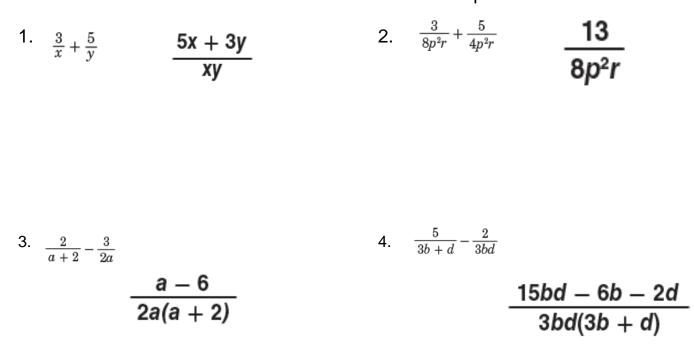
5x(x + 3)(2x - 1)

44(x-2)(x+2)(x+5)

Climb The Ladder D Find the LCM of each set of polynomials.

1. $14ab^2$, $42bc^3$, $18a^2c$	2. $8cdf^3$, $28c^2f$, $35d^4f^2$
126a ² b ² c ³	280c ² d ⁴ f ³
3. $x^2 + 3x$, $10x^2 + 25x - 15$	4. $22x^2 + 66x - 220, 4x^2 - 16$
5x(x + 3)(2x - 1)	44(x-2)(x+2)(x+5)

Climb The Ladder E T8-2: I can add and subtract rational expressions.



Climb The Ladder E

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

2. $\frac{3}{x} + \frac{5}{y}$ $\frac{5x + 3y}{xy}$ 2. $\frac{3}{8p^2r} + \frac{5}{4p^2r}$ $\frac{13}{8p^2r}$ 4. $\frac{2}{a+2} - \frac{3}{2a}$ $\frac{a-6}{2a(a+2)}$ 4. $\frac{5}{3b+d} - \frac{2}{3bd}$ $\frac{15bd - 6b - 2d}{3bd(3b+d)}$ Climb the Ladder F T8-2: I can add and subtract rational expressions.

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

2. $\frac{1}{x^2+2x+1} + \frac{x}{x+1}$ $\frac{x^2+x+1}{(x+1)^2}$
 $\frac{5z^2+4z-16}{(z-4)(z+1)}$

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

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

Climb the Ladder F T8-2: I can add and subtract rational expressions.

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

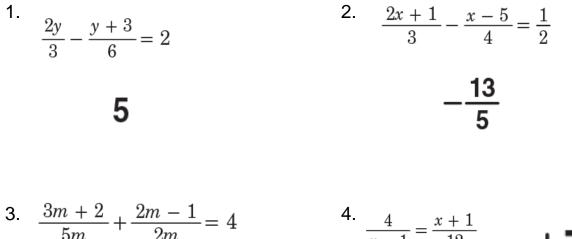
 $\frac{5z^2 + 4z - 16}{(z-4)(z+1)}$
2. $\frac{1}{x^2+2x+1} + \frac{x}{x+1}$ $\frac{x^2 + x + 1}{(x+1)^2}$

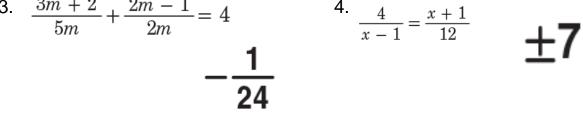
3.
$$\frac{n}{n-3} + \frac{2n+2}{n^2-2n-3}$$

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

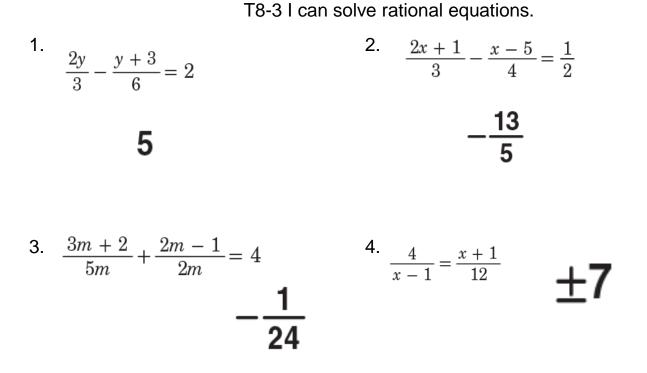
Climb the Ladder G

T8-3 I can solve rational equations.

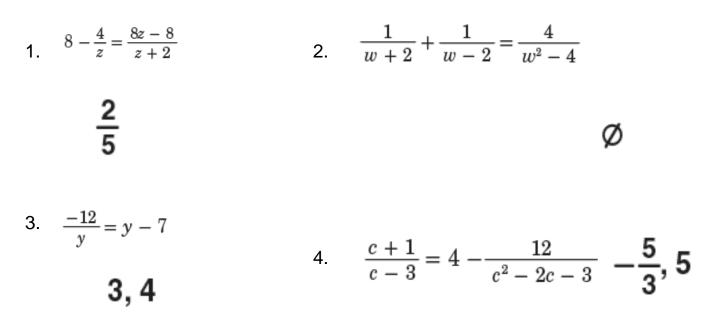




Climb the Ladder G



Climb the Ladder H T8-3 I can solve rational equations.



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. $\frac{c + 1}{c - 3} = 4 - \frac{12}{c^2 - 2c - 3} - \frac{5}{3}, 5$