1. Find all numbers for which the rational expression is undefined.

$$-\frac{15}{23z}$$

1. Find all numbers for which the rational expression is undefined.

$$\frac{t^{3 }-6t}{t^{2}-25}$$

1. Simplify by removing factor of 1.

$\frac{80v^{ 8 }y^{9}}{50v^{4 }y^{6}}$ (The simplified form is)

1. Simplify by removing factor of 1.

$\frac{r^{2 }-16}{r^{2 }-8r+16}$

1. Simplify by removing factor of 1

$\frac{21v^{2 }-189}{49v^{2 }-441}$

1. Multiply and simplify

$\frac{7b^{7 }}{11v^{4}}$ $∙ \frac{121v^{8}}{49b}$

1. Multiply and simplify

 $\frac{w^{2 }-4w-45}{w^{2 }-10w+25 }$ $∙ \frac{w-5}{w-9}$ (Simplify your answer)

1. Divide and simplify

$\frac{f}{b^{2}}$ $÷ \frac{f^{2}}{b^{3}}$

1. Divide and simplify

$\frac{x^{2 }-36}{x} ÷ \frac{x-6}{x+7}$ (Type a fraction. Leave your answer in factored form)

1. Divide and simplify

$\frac{x^{2 }-1}{49x+49} ÷ \frac{x-1}{7}$ (Type a fraction)

1. Divide and simplify

$\frac{z^{2 }+4z}{z^{2 }+2z-8} ÷ \frac{z}{z+2}$ (Type a fraction)

1. Find the LCM of

$10x^{4}$, $ 50x^{6}$

1. Find the LCM of

$$q^{2 }-49, q^{2 }+12q+35$$

1. Find the LCM of

$w^{3 }$+ $10w^{2 }+25w, w^{2 }-10w$

1. $9y^{2}+45y, 3y^{2}+24y+45$
2. Add

$$\frac{6}{8+z} +\frac{1}{8+z}$$

1. Add. Simplify if possible

$\frac{x^{2 }+13x}{x^{2 }-8x}$ $+\frac{x^{2 }-6x}{x^{2 }-8x}$

1. Add. Simplify if possible

$\frac{7}{25z^{3}}$ $+\frac{1}{35z^{2}}$

1. Add.

$\frac{6}{v-8}$ $+\frac{6}{v-8}$ (Simplify your answer)

1. Add. Simplify if possible

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

1. Add and simplify if possible

$\frac{w+1}{w}$ $+\frac{w}{w+1}$

1. Subtract and simplify if possible

$\frac{z-9}{z}-\frac{3z-17}{7z}$ (Simplify your answer. Use integers or fraction for any numbers in the expression)

1. $\frac{3}{7s^{2 }-7s}$ $-\frac{7}{7s-7}$ ((Simplify your answer. Use integers or fraction for any numbers in the expression)
2. Subtract. Simplify by removing a factor of 1 when possible

$\frac{12bc}{b^{2 -c^{2}}}$ $– \frac{b-c}{b+c}$

1. Subtract. Simplify if possible

$\frac{4-z}{z-2}-\frac{2z-5}{2-z}$ (Simplify your answer)

1. Perform the indicated operation and simplify

$$\frac{x-2}{x-4}-\frac{x+1}{x+4}+\frac{x-20}{x^{2 }-16}$$

1. Simplifying the expression

 (a²-1)/(a-1)-a

1. Simplify

**((x^2 - 1) / (x - 1)) - 1**