

9. Add.

$$\frac{4}{z^2} + \frac{6}{z} = \frac{4}{z^2} + \frac{6(z)}{z(z)} = \frac{4}{z^2} + \frac{6z}{z^2} = \frac{6z+4}{z^2} = \boxed{\frac{2(3z+2)}{z^2}}$$

10. Subtract.

$$\frac{3t}{t+6} - \frac{4t}{6+t} = \frac{3t}{t+6} - \frac{4t}{t+6} = \boxed{\frac{-t}{t+6}}$$

11. Simplify.

$$\frac{3x+5}{9x^2-25} - \frac{15x}{25x-15x^2} = \frac{3x+5}{(3x+5)(3x-5)} - \frac{15x}{-5x(3x-5)} = \frac{1}{(3x-5)} + \frac{3}{(3x-5)} = \boxed{\frac{4}{3x-5}}$$

12. Simplify.

$$\frac{\frac{2}{t} + \frac{3}{t^2}}{\frac{5}{t^2} + \frac{1}{t}} = \frac{\left(\frac{2}{t} + \frac{3}{t^2}\right)t^2}{\left(\frac{5}{t^2} + \frac{1}{t}\right)t^2} = \frac{\frac{2t^2}{t} + \frac{3t^2}{t^2}}{\frac{5t^2}{t^2} + \frac{t^2}{t}} = \frac{2t + 3}{5 + t} = \boxed{\frac{2t+3}{t+5}}$$

13. Solve and check for extraneous answers.

$$\frac{x+24}{x} = \frac{x}{4}$$

$$4x+96=x^2$$

$$0=x^2-4x-96$$

$$(x-12)(x+8)$$

$$x=12 \quad x=-8$$

✓

$$\frac{x+24}{x} = \frac{x}{4}$$

$$\frac{12+24}{12} = \frac{12}{4}$$

$$\frac{36}{12} = \frac{12}{4}$$

$$3 = 3$$

$$\boxed{x=12}$$

$$\frac{x+24}{x} = \frac{x}{4}$$

$$\frac{-8+24}{-8} = \frac{-8}{4}$$

$$\frac{16}{-8} = \frac{-8}{4}$$

$$-2 = -2$$

$$\boxed{x=-8}$$

14. Solve and check for extraneous answers.

$$\left(\frac{3t}{(t-5)(t+4)} = -\frac{6t}{(t-5)(t+4)(t+2)}\right) (t-5)(t+4)(t+2)$$

$$\frac{3t(t+2)}{(t-5)(t+4)(t+2)} = -\frac{6t(t+4)}{(t-5)(t+4)(t+2)}$$

$$\frac{3t}{t^2-t-20} = -\frac{6t}{t^2-7t+10}$$

$$3t^2-6t = -6t^2-24t$$

$$9t^2+18t = 0$$

$$9t(t+2) = 0$$

$$\frac{9t=0}{t=0} \quad \frac{t+2=0}{t=-2}$$

15. Graph. Include asymptotes.

$$g(x) = \frac{1}{x-3}$$

$$x-3 \neq 0$$

$$x \neq 3$$

$$y \neq 0$$



16. State the domain and range.

$$f(x) = \frac{1}{x-4} + 5$$

$$D = \{x \mid x \neq 4\}$$

$$R = \{y \mid y \neq 5\}$$

17. State the domain and range.

$$f(x) = -\frac{3}{x} - 3$$

$$D = \{x \mid x \neq 0\}$$

$$R = \{y \mid y \neq -3\}$$

18. Identify asymptotes and x and y intercepts.

$$f(x) = \frac{x}{x-5}$$

$$P(x) \rightarrow x=0$$

$$Q(x) \rightarrow x=5$$

$$\boxed{VA=5}$$

$P(x)$ & $Q(x)$ have same power

$$\therefore HA = \frac{1}{1} = 1$$

$$\left. \begin{array}{l} x\text{-intercept } (0,0) \\ y\text{-intercept } (0,0) \end{array} \right\}$$

$$f(x) = \frac{0}{0-5} = \frac{0}{-5} = 0$$

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Daniel F McAuley



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