

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.

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

$4x+96 = x^2$
 $0 = x^2 - 4x - 96$
 $(x-12)(x+8)$
 $x=12 \quad x=-8$

$\checkmark \quad \frac{x+24}{x} = \frac{x}{4}$
 $\frac{12+24}{12} = \frac{12}{4}$
 $\frac{36}{12} = \frac{12}{4}$
 $3 = 3$

$\frac{x+24}{x} = \frac{x}{4}$
 $-\frac{8+24}{8} = -\frac{8}{4}$
 $-\frac{32}{8} = -\frac{8}{4}$
 $-4 = -2$

$x=12$

$x=-8$

14. Solve and check for extraneous answers.

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

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

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

$$9t^2 - 7t + 10 = 0$$

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

$9t=0 \quad t+2=0$
 $t=0 \quad t=-2$

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.

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

$P(x) \rightarrow x=0$
 $Q(x) \rightarrow x=5$

$\} \text{zeros}$

$$\boxed{VA=5}$$

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

$$\text{so } HA = \frac{1}{1} = 1$$

x-intercept $(0,0)$

y-intercept $(0,0)$

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

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