

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.

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

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

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

$$> \text{zeros}$$

$$\boxed{VA=5}$$

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

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

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

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

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Jianjun Gao



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web description aisi 4145h is a chromium molybdenum low alloy tempered steel it has improved hardenability and is more is commonly used in the high strength condition with min 110 ksi yield related standards equivalent materials en 1 7225 this material data has been provided by sverdrup steel

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web jun 1 2023 aisi 4145 exhibits excellent strength toughness and wear resistance as a low alloy steel grade the minimum yield strength of aisi 4145 is 89 ksi while the ultimate tensile strength is between 125 140 ksi depending on the heat treatment conditions

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web as compared to 4140 the 4145 mod grade has higher levels of chromium and molybdenum which will provide much deeper hardening into the steel after austenitizing quenching and tempering this alloy should not be confused with aisi 4145 as the chemical limits for the modified version are much higher