7. Add.
$$\frac{4}{2^2} \Phi = \frac{6}{2} = \frac{4}{2^2} + \frac{6}{2} = \frac{4}{2^2} + \frac{6}{2^2} = \frac{4}{2^2} = \frac{6}{2^2} = \frac{2(3z+2)}{2^2}$$

10. Subtract.

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

11. Simplify.

11. Simplify.

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

12. Simplify.

$$\frac{\frac{2}{1} + \frac{3}{1}}{\frac{1}{12} + \frac{1}{12}} = \frac{(\frac{2}{12} - \frac{3}{12}) + \frac{2}{12}}{(\frac{3}{12} + \frac{1}{12}) + \frac{3}{12}} = \frac{2 + \frac{3}{12}}{\frac{3}{12} + \frac{3}{12}} = \frac{2 + \frac{3}{12}}{\frac{3}{12}} = \frac{2 + \frac{3}{12}}{\frac{3}} = \frac{2 + \frac{3}{12}}{\frac{3}}$$

Solve and check for extraneous answers.

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

$$\frac{4x+96 = x^{2}}{(x-12)(x+8)}$$

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

$$\frac{0 = x^{2}-4x-96}{(x-12)(x+8)}$$

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

(t-5)(t+4) = - (t-5)(+-2) (t-5)(++4)(t-2)

$$f(x) = \frac{1}{x-4} + 5 \qquad R = \frac{1}{2y \mid y \neq 5}$$

17. State the domain and range. D= {x | x = 0} $f(x) = -\frac{3}{2} - 3$ $R = \{y \mid y \neq -3\}$

Identify asymptotes and x and y intercepts.

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

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

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

$$VA = 5$$

×+24 = × 12 +24 = 4 12 +24 = 4 13 = 13 14 = 13 15 = 13

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SAT II Exambusters

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