

Solve eq 1

Solve each equation. Remember to check for extraneous solutions.

1)
$$\frac{1}{x+4} = \frac{1}{x^2+4x} - \frac{1}{x}$$

2)
$$\frac{1}{6x^2-10x+4} = \frac{5}{6x-4} - \frac{2}{3x^2-5x+2}$$

3)
$$\frac{1}{x+1} + \frac{3x-15}{x^2+7x+6} = \frac{1}{x+6}$$

4)
$$\frac{1}{x} = \frac{x-6}{x^2-3x} - \frac{1}{x-3}$$

5)
$$\frac{1}{3x^2-3x-90} = \frac{1}{3x+15} + \frac{x+5}{3x-18}$$

6)
$$\frac{1}{x} + \frac{1}{x+4} = \frac{x^2+8x+12}{x^2+4x}$$

7)
$$\frac{x}{x+4} = \frac{1}{x-5} + \frac{3}{x^2-x-20}$$

8)
$$\frac{1}{3x^2+24x+48} = \frac{x+1}{3x+12} - \frac{1}{x^2+8x+16}$$