

Solve each equation. Remember to check for extraneous solutions.

7)  $\frac{3}{v^2} + \frac{1}{3v} = \frac{1}{6v^2}$

8)  $\frac{1}{2b} = \frac{1}{b} + \frac{1}{4}$

9)  $\frac{1}{n^2 - 5n} + \frac{1}{n - 5} = \frac{3}{n}$

10)  $\frac{2k - 10}{k^2 - 8k} = \frac{1}{k} + \frac{7}{k}$

11)  $\frac{8}{3x} = \frac{1}{x - 2} - \frac{1}{3x}$

12)  $\frac{8}{a^2 - 5a} = \frac{1}{a^2 - 5a} + \frac{1}{a}$

13)  $x + 2 + \frac{x - 7}{2} = \frac{x^2 - 16}{2x - 12}$

14)  $4 = \frac{5x + 30}{x^2 + 11x + 24} + \frac{4}{x^2 + 11x + 24}$