

Lesson 9-5 Solve each equation. Check your solutions.

1. $\frac{5}{x} + \frac{3}{5} = \frac{2}{x}$

2. $\frac{1}{2+3x} + \frac{2}{2-3x} = 0$

3. $\frac{x-2}{x} = \frac{x-4}{x-6}$

4. $\frac{1}{x} + \frac{x}{x+2} = 1$

5. $\frac{1}{x+1} + \frac{1}{x-1} = \frac{2}{x^2-1}$

6. $\frac{2}{x} + \frac{1}{x-2} = 1$

7. $\frac{1}{x-3} + \frac{1}{x+5} = \frac{x+1}{x-3}$

8. $\frac{4}{x^2-2x-3} = \frac{-x}{3-x} - \frac{1}{x+1}$

9. $\frac{x}{x+1} + \frac{3}{x-3} + 1 = 0$

10. $\frac{3x}{x^2+2x-8} = \frac{1}{x-2} + \frac{x}{x+4}$

11. $\frac{5x+2}{x^2-4} = \frac{-5x}{2-x} + \frac{2}{x+2}$

12. $\frac{1}{x-3} + \frac{2}{x^2-9} = \frac{5}{x+3}$

13. $\frac{1}{x^2-1} = \frac{2}{x^2+x-2}$

14. $\frac{12}{x^2-16} - \frac{24}{x-4} = 3$

15. $\frac{4}{x-2} - \frac{x+6}{x+1} = 1$

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