

Show all set up and work for full points.

For problems 1-17, solve each equation.

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

2. $\frac{2x+1}{6} + \frac{x}{2} = \frac{x-1}{3}$

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

4. $\frac{1}{4} - x = \frac{x}{8}$

5. $\frac{y}{5} + \frac{y}{2} = 7$

6. $\frac{2x}{3} - \frac{1}{2} = \frac{2x+5}{6}$

7. $\frac{11}{3x} - \frac{1}{3} = \frac{-4}{x^2}$

8. $\frac{3}{2x} - \frac{5}{3x} = 2$

9. $\frac{5}{2x} - \frac{2}{3} = \frac{1}{x} + \frac{5}{6}$

10. $\frac{15}{x} + \frac{9x-7}{x+2} = 9$

11. $\frac{2}{x+2} - \frac{1}{x} = \frac{-4}{x(x+2)}$

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

13. $x - \frac{x}{3} + \frac{x}{5} = 26$

14. $\frac{1}{x-5} = \frac{x}{x^2-25}$

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

16. $\frac{5}{x^2-7x+12} - \frac{2}{3-x} = \frac{5}{x-4}$

17. $\frac{10}{2x+8} - \frac{7x+8}{x^2-16} = \frac{-8}{2x-8}$