

Rational Equations

1. $3 = \frac{12}{4x+5}$

2. $\frac{9}{4x+2} = \frac{1}{2}$

3. $\frac{4}{9+x} = -\frac{1}{3x}$

4. $\frac{y-5}{9} = \frac{y-7}{5}$

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



6. $\frac{9}{2x-3} = \frac{6}{3x-7}$



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

8. $4 + \frac{x+2}{2} - \frac{x+4}{6} = 0$

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



10. $\frac{8}{x} + \frac{x+6}{3x} + \frac{x-4}{6x} = \frac{8}{9}$



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

12. $\frac{2}{x-1} - \frac{3}{x+4} + \frac{1}{x+5} = 0$

13. $\frac{18}{x^2-9} + 1 = \frac{x}{x+3}$



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



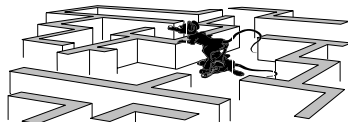
15. $\frac{10}{x-3} + \frac{5}{x+1} = \frac{25}{x^2-2x-3}$

16. $\frac{3}{x^2+2x-15} + \frac{4}{x^2-9} = \frac{8}{x^2+8x+15}$

17. $\frac{4x+4}{x^2+3x+2} = \frac{x}{x+2}$



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



19. $\frac{3x-5}{x^2+4x+3} + \frac{2x+2}{x+3} = \frac{x-3}{x+1}$

20. $\frac{1}{x^2+2x-8} + \frac{3x}{2x^2+19x+44} = \frac{2x}{2x^2+7x-22}$