Lineárne rovnice s neznámou v menovateli

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

2. $z.\frac{2.\left(\frac{z}{2}-4\right)}{z-2}=-5$

3. $\frac{1}{x-2}=\frac{1}{x-3}+\frac{3x-13}{(x-2)(x-3)}$

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

5. $\frac{3}{x-1}+4=\frac{4x+10}{x+1}$

6. $\frac{3}{x-3}-\frac{7}{x+3}=\frac{10}{x^2-9}$

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

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

9. $\frac{4}{x-3}-\frac{3}{x-2}=\frac{1}{x-4}$

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

11. $\frac{2z+3}{z+12}=\frac{2z+9}{z+22}$

12. $\frac{5}{x+1}-7=\frac{10-7x}{x-1}$

13. $\frac{r+2}{r-2}-1=\frac{3r^2+r+9}{3\left(r^2-4\right)}-\frac{r-2}{r+2}$

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

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

16. $\frac{x-\frac{2}{3}}{\frac{3}{2}-x}+\frac{8}{3}=0$

17. $\frac{\frac{z}{2}-2}{z-1}+\frac{\frac{z}{2}+2}{z+1}=1$

Výsledky:

1. x = nemá riešenie **2.** z = 3 **3.** x = 4 **4.** x = nemá riešenie **5.** x = 3 **6.** x = 5 **7.** x = -6 **8.** x = 1 **9.** x = 5 **10.** x = $\frac{1}{3}$ **11.** z = 3 **12.** x = 4 **13.** r = 27 **14.** x = nemá riešenie **15.** x = všetky reálne čísla **16.** x = 2 **17.** z = nemá riešenie