

## Bruchgleichungen - BG 4

Name \_\_\_\_\_ Datum \_\_\_\_\_

**Löse folgende Gleichungen!**

1)  $\frac{6}{x^2} = \frac{1}{x^2} - \frac{3}{x}$

2)  $\frac{3}{n} = \frac{4}{3n} - \frac{n-1}{n}$

3)  $\frac{3}{n} = \frac{1}{n} + \frac{1}{3}$

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

5)  $\frac{1}{3p^2} = \frac{p+2}{2p^2} - \frac{1}{6p^2}$

6)  $\frac{5}{p^2} - \frac{1}{4p} = \frac{1}{4p^2}$

7)  $\frac{1}{5b} - \frac{2b-12}{5b} = \frac{4}{b}$

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

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

10)  $\frac{1}{5n} - \frac{1}{5n^2} = \frac{6}{n^2}$

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

12)  $5 - \frac{1}{3} = \frac{5r-15}{3r}$

13)  $\frac{v-3}{v^2} + \frac{5}{v} = \frac{1}{v}$

14)  $\frac{1}{2k^2} = \frac{1}{k^2} - \frac{3}{4k}$

15)  $\frac{x+4}{x} = \frac{x+5}{x} - \frac{x+3}{4x}$

16)  $\frac{4}{n} = \frac{1}{n^2} + \frac{n-3}{n^2}$

17)  $\frac{1}{a^2} = \frac{a-4}{5a^2} + \frac{1}{5a^2}$

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

19)  $\frac{k+1}{k^2-25} = \frac{5}{k+5} - \frac{1}{k+5}$

20)  $1 - \frac{5}{4n+5} = \frac{n-6}{4n+5}$

21)  $\frac{2a-4}{a+3} = \frac{1}{a+3} + 1$

22)  $\frac{5x-10}{x^2-x} = \frac{1}{x-1} + \frac{1}{x^2-x}$