

## Oefening breuken optellen: ANTWOORDEN

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1.  $3 + \frac{1}{x+1} = \frac{3x+3}{x+1} + \frac{1}{x+1} = \frac{3x+4}{x+1}$
2.  $5 - \frac{2}{x-1} = \frac{5x-5}{x-1} - \frac{2}{x-1} = \frac{5x-7}{x-1}$
3.  $\frac{2}{x+1} + \frac{3}{x-1} = \frac{2x-2}{x^2-1} + \frac{3x+3}{x^2-1} = \frac{5x+1}{x^2-1}$
4.  $\frac{4}{2x+1} - 3 = \frac{4}{2x+1} - \frac{6x+3}{2x+1} = \frac{1-6x}{2x+1}$
5.  $\frac{2}{x} + \frac{3}{x+1} = \frac{2x+2}{x(x+1)} + \frac{3x}{x(x+1)} = \frac{5x+2}{x(x+1)}$
6.  $\frac{3}{2x-1} + \frac{1}{x} = \frac{3x}{x(2x-1)} + \frac{2x-1}{x(2x-1)} = \frac{5x-1}{x(2x-1)}$
7.  $\frac{5}{1-x} + \frac{2}{x-1} = \frac{-5}{x-1} + \frac{2}{x-1} = \frac{-3}{x-1} = \frac{3}{1-x}$
8.  $\frac{4}{2x-1} + \frac{3}{x} = \frac{4x}{x(2x-1)} + \frac{6x-3}{x(2x-1)} = \frac{10x-3}{x(2x-1)}$
9.  $\frac{2}{x} + \frac{x}{3} = \frac{6}{3x} + \frac{x^2}{3x} = \frac{6+x^2}{3x}$
10.  $\frac{5}{2x} + \frac{x}{7} = \frac{35}{14x} + \frac{2x^2}{14x} = \frac{35+2x^2}{14x}$
11.  $\frac{4}{x+1} - \frac{6}{x-1} = \frac{4x-4}{x^2-1} - \frac{6x+6}{x^2-1} = \frac{-2x-10}{x^2-1}$
12.  $\frac{3}{x} - \frac{5}{x+1} = \frac{3x+3}{x(x+1)} - \frac{5x}{x(x+1)} = \frac{-2x+3}{x(x+1)}$
13.  $\frac{1}{1-x} - \frac{3}{2x-1} = \frac{2x-1}{(2x-1)(1-x)} - \frac{3-3x}{(2x-1)(1-x)} = \frac{5x-4}{(2x-1)(1-x)}$
14.  $\frac{2}{1-x} - \frac{x}{3} = \frac{6}{3(1-x)} - \frac{x-x^2}{3(1-x)} = \frac{6-x+x^2}{3(1-x)}$
15.  $\frac{4}{2x-1} - \frac{1}{x} = \frac{4x}{x(2x-1)} - \frac{2x-1}{x(2x-1)} = \frac{2x+1}{x(2x-1)}$