תרגילים

פתרו את התרגילים הבאים:

תיעוד וחיסור שברים עם נעלם

95. $\frac{3x+2}{4} - \frac{3-x}{2} = \frac{3x+2}{4} - \frac{2(3-x)}{2\cdot 2} = \frac{3x+2}{4} - \frac{6-2x}{4} = \frac{3x+2-(6-2x)}{4} = \frac{3x+2-6+2x}{4} = \frac{5x-4}{4}$

96. $\frac{5x-6}{3} + \frac{5}{1} = \frac{5x-6}{3} + \frac{5\cdot 3}{1\cdot 3} = \frac{5x-6}{3} + \frac{15}{3} = \frac{5x-6+15}{3} = \frac{5x+9}{3}$

97. $\frac{x+2}{6} + \frac{5-x}{7} = \frac{7(x+2)}{6\cdot 7} + \frac{6(5-x)}{7\cdot 6} = \frac{7x+14}{42} + \frac{30-6x}{42} = \frac{7x+14+30-6x}{42} = \frac{x+44}{42}$

98. $\frac{2+x}{7y} - \frac{3x-1}{7y} = \frac{2+x-(3x-1)}{7y} = \frac{2+x-3x+1}{7y} = \frac{3-2x}{7y}$

99. $\frac{ab-2}{a} + \frac{4-b}{3} = \frac{3(ab-2)}{a\cdot 3} + \frac{a(4-b)}{3\cdot a} = \frac{3ab-6}{3a} + \frac{4a-ab}{3a} = \frac{3ab-6+4a-ab}{3a} = \frac{2ab+4a-6}{3a}$

100. $\frac{2x+7}{2x} + \frac{1-3x}{x} = \frac{2x+7}{2x} + \frac{2(1-3x)}{2\cdot x} = \frac{2x+7}{2x} + \frac{2-6x}{2x} = \frac{2x+7+2-6x}{2x} = \frac{9-4x}{2x}$

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

102. $\frac{1-a}{b} - \frac{3ab-1}{b^2} = \frac{b(1-a)}{b\cdot b} - \frac{3ab-1}{b^2} = \frac{b-ab}{b^2} - \frac{3ab-1}{b^2} = \frac{b-ab-(3ab-1)}{b^2} = \frac{b-ab-3ab+1}{b^2} = \frac{b-4ab+1}{b^2}$

103. $\frac{a-1}{a} + \frac{2a+5}{3a} - \frac{4-a}{3} = \frac{3(a-1)}{3\cdot a} + \frac{2a+5}{3a} - \frac{a(4-a)}{3\cdot a} = \frac{3a-3}{3a} + \frac{2a+5}{3a} - \frac{4a-a^2}{3a} = \frac{3a-3+2a+5-(4a-a^2)}{3a} = \frac{3a-3+2a+5-4a+a^2}{3a} = \frac{a+2+a^2}{3a}$