

11) Vyřešte soustavy rovnic a proveďte zkoušku:

a) $4 \cdot (x - 1) - 2y = 10$

$4x + 2 \cdot (y - 10) = 14$

b) $2x - y - 3 = 0$

$3 \cdot (x + 2) - 4 \cdot (y + 2) = 0$

c) $3x - 2y - 5 = 0$

$6 \cdot (x - 1) - 4 \cdot (y + 1) = 0$

d) $2x - 2 = 3 - 3y$

$3 - 4x = 4y - 1$

e) $4x + y = 5$

$3 \cdot (2x + y) - 2 \cdot (-4x + y) = 10$

f) $3 \cdot (x + 2y) = 5 \cdot (y + x)$

$2 \cdot (5x + y) = 7 \cdot (x + 1)$

12) Vyřešte soustavy:

a) $\frac{x}{2} - \frac{y}{3} = 1$

$x + 2y = 10$

b) $\frac{x+1}{3} + \frac{y-1}{4} = 2$

$\frac{x}{2} + \frac{y}{5} = 2$

c) $\frac{x+1}{4} + 2y = 3$

$x + \frac{y+4}{5} = 4$

d) $\frac{x+y}{7} + \frac{x-y}{3} = 2$

$\frac{x+2y}{9} + \frac{2x+y}{2} = 7$

e) $\frac{x}{2} + \frac{y}{3} = x + 5$

$x + \frac{y}{4} = 1$

f) $\frac{x+1}{2} - \frac{y-1}{3} = 2$

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

13) Vyřešte soustavy rovnic

a) $0,3x - y - 0,5 = 0$

$(x + 2) \cdot (x - 2) - x \cdot (x - 1) = y$

c) $2 \cdot (x + 3) + 4 \cdot (y - 2) = 8$

$x \cdot (2x - 1) - 2 \cdot (x^2 + y - 2) = -1$

e) $\frac{x}{4} + \frac{y + 1}{2} = 2$

$(x + 3) \cdot (x - 3) - 3y = x \cdot (x - 3)$

b) $\frac{x + 1}{3} + \frac{y + 4}{4} = 3$

$(x + 2)^2 - x^2 = 3y$

d) $\frac{x + 1}{2} + y = 4$

$x \cdot (y + 1) - y \cdot (x + 1) = 1$

f) $\frac{x}{2} + \frac{2 - y}{5} = 2$

$(x + 1)^2 = x \cdot (x + 1) - y$

14) Vyřešte soustavy

a) $\frac{y + 2}{x} = 1$

$\frac{x - 1}{y} = 2$

c) $\frac{y + 1}{x} = 2$

$\frac{y + 2}{x - 1} = 5$

e) $\frac{2}{x - 1} = \frac{x + y}{(x - 1)^2}$

$\frac{x}{y + 1} = 2$

b) $\frac{y}{x - 2} = 3$

$\frac{x + 2}{y - 3} = 2$

d) $\frac{2y + 1}{x} + \frac{1}{4} = 1$

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

f) $\frac{y + 1}{x - 2} = 2$

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

