

**11) Vyřešte soustavy rovnic a provedte zkoušku:**

a)  $4.(x - 1) - 2y = 10$   
 $\underline{4x + 2.(y - 10) = 14}$

b)  $2x - y - 3 = 0$   
 $\underline{3.(x + 2) - 4.(y + 2) = 0}$

c)  $3x - 2y - 5 = 0$   
 $\underline{6.(x - 1) - 4.(y + 1) = 0}$

d)  $2x - 2 = 3 - 3y$   
 $\underline{3 - 4x = 4y - 1}$

e)  $4x + y = 5$   
 $\underline{3.(2x + y) - 2.(-4x + y) = 10}$

f)  $3.(x + 2y) = 5.(y + x)$   
 $\underline{2.(5x + y) = 7.(x + 1)}$

**12) Vyřešte soustavy:**

a)  $\frac{x}{2} - \frac{y}{3} = 1$   
 $\underline{x + 2y = 10}$

b)  $\frac{x+1}{3} + \frac{y-1}{4} = 2$   
 $\underline{\frac{x}{2} + \frac{y}{5} = 2}$

c)  $\frac{x+1}{4} + 2y = 3$   
 $\underline{x + \frac{y+4}{5} = 4}$

d)  $\frac{x+y}{7} + \frac{x-y}{3} = 2$   
 $\underline{\frac{x+2y}{9} + \frac{2x+y}{2} = 7}$

e)  $\frac{x}{2} + \frac{y}{3} = x + 5$   
 $\underline{x + \frac{y}{4} = 1}$

f)  $\frac{x+1}{2} - \frac{y-1}{3} = 2$   
 $\underline{\frac{x+4}{3} + \frac{2y-3}{5} = y}$

**13) Vyřešte soustavy rovnic**

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

$$\underline{(x+2). (x-2) - x. (x-1) = y}$$

b) 
$$\begin{aligned} \frac{x+1}{3} + \frac{y+4}{4} &= 3 \\ (x+2)^2 - x^2 &= 3y \end{aligned}$$

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

$$\underline{x. (2x-1) - 2. (x^2 + y - 2) = -1}$$

d) 
$$\begin{aligned} \frac{x+1}{2} + y &= 4 \\ x. (y+1) - y. (x+1) &= 1 \end{aligned}$$

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

$$\underline{(x+3). (x-3) - 3y = x. (x-3)}$$

f) 
$$\begin{aligned} \frac{x}{2} + \frac{2-y}{5} &= 2 \\ (x+1)^2 &= x. (x+1) - y \end{aligned}$$

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**14) Vyřešte soustavy**

a) 
$$\begin{aligned} \frac{y+2}{x} &= 1 \\ \frac{x-1}{y} &= 2 \end{aligned}$$

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b) 
$$\begin{aligned} \frac{y}{x-2} &= 3 \\ \frac{x+2}{y-3} &= 2 \end{aligned}$$

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c) 
$$\begin{aligned} \frac{y+1}{x} &= 2 \\ \frac{y+2}{x-1} &= 5 \end{aligned}$$

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d) 
$$\begin{aligned} \frac{2y+1}{x} + \frac{1}{4} &= 1 \\ \frac{x-3}{y+2} + \frac{2}{3} &= 1 \end{aligned}$$

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

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f) 
$$\begin{aligned} \frac{y+1}{x-2} &= 2 \\ \frac{2y+3}{x-1} &= 1 \end{aligned}$$

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