

Soustavy lineárních nerovnic

1.) $\frac{2x-7}{4} - \frac{3-2x}{2} \leq 1$

$$\frac{1}{3}(x+4) > 0$$

$$\left[-4; \frac{17}{6} \right)$$

2.) $2 < 2x+3 < 3(x+1)$

$$[\infty]$$

3.) $-3 \leq 2-x \leq 2(3-x)$

$$[\langle 1; 4 \rangle]$$

4.) $2(3a-1) > a-7$

$$4(a+3) \leq 4-(3a-4)$$

$$\left[-1; -\frac{4}{7} \right)$$

5.) $5(1-2y)-3(y+4) \geq 0$

$$y-2(3-2y) < 1-y$$

$$\left[-\infty; -\frac{7}{13} \right)$$

6.) $3s-1 < 2[4-2(s+1)]$

$$3(3-2s) > 2(s-1)+1$$

$$\left[-\infty; \frac{5}{7} \right)$$

7.) $7-(9-2x) \leq x+(4x-1)$

$$3[3x-4(x-1)] \geq 2-x$$

$$[\emptyset]$$

8.) $\frac{x}{2}-4 > x+\frac{1}{2}$

$$\frac{1}{4}-2x \geq 2(x+1)$$

$$[-\infty; -9]$$

9.) $3-y \leq \frac{y}{3}-\frac{1}{2}$

$$\frac{1}{2}(2y-5) > 3$$

$$\left[\frac{11}{2}; \infty \right)$$

10.) $\frac{a-2}{3}-\frac{5-2a}{6} < 1$

$$\frac{3}{4}(a+5)-\frac{1}{2} > 0$$

$$\left[-\frac{13}{3}; \frac{15}{4} \right)$$

11.) $m-\frac{3m+7}{4} < 2(m-1)$

$$4(m+3) \leq \frac{1}{2}(3-m)$$

$$[\emptyset]$$

12.) $\frac{x-1}{2}-\frac{2x+5}{7}+\frac{3-x}{4} \leq 0$

$$\frac{3}{5}(1-x)-\frac{1}{2} > 0$$

$$\left[-13; \frac{1}{6} \right)$$

13.) $3(x+2)-\frac{5-2x}{2} > \frac{x}{3}$

$$\frac{2}{3}(1-x)-\frac{1}{4}(x+1) \leq 1$$

$$[]$$

14.) $5(r-3) \geq \frac{1}{2}(r-6)$

$$\frac{r+3}{7-3r} < 0$$

$$\left[\frac{8}{3}; \infty \right)$$