Sistemi di disequazioni di primo grado intere

PASSED

risolvi i seguenti sistemi		
1	$\begin{cases} 3x+1<2x+5 \\ x+3<3x+1 \end{cases}$	$1<x<4$
2	$\begin{cases} 2x+1\leq x+4 \\ 5x-2>x-1 \end{cases}$	$\frac{1}{4}<x\leq 3$
3	$\begin{cases} 4x-2\leq 10+x \\ 1-2x\leq 1-x \end{cases}$	$0\leq x\leq 4$
4	$\begin{cases} 3x+7>x-3 \\ 2-x\geq 3x-2 \end{cases}$	$-5<x\leq 1$
5	$\begin{cases} 1-x>0 \\ 3-x<0 \end{cases}$	*impossible*
6	$\begin{cases} 1+x<0 \\ 3+x>0 \end{cases}$	$-3<x<-1$
7	$\begin{cases} x+2>5 \\ x-5>0 \end{cases}$	$x>5$

8	$\begin{cases} 3x+2<7 \\ 4x+3\geq -6 \end{cases}$	$-\frac{9}{4}\leq x<\frac{5}{3}$
9	$\begin{cases} 2x-3\leq 7x+1 \\ 4+x\leq -4x+1 \end{cases}$	$-\frac{4}{5}\leq x\leq -\frac{3}{5}$
10	$\begin{cases} 3-2x-4\leq -8+x \\ 2-4x+11>-2x-1 \end{cases}$	$\frac{7}{3}\leq x<7$
11	$\begin{cases} 2(x+1)<7-x \\ 3(x+4)>2+3(2x-1) \end{cases}$	$x<\frac{5}{3}$
12	$\begin{cases} 3x+9+2<x-1 \\ 2x-3>x+7 \end{cases}$	*impossibile*
13	$\begin{cases} 3x-5<2x+4 \\ -4x>2+8\left(x-\frac{5}{8}\right)-6x \end{cases}$	$x<\frac{1}{2}$
14	$\begin{cases} \frac{x+3}{2}-\frac{2}{3}<\frac{x-1}{6}-1 \\ 2x-2>x+1 \end{cases}$	*impossibile*

15	$\begin{cases} 2x+\frac{1}{2}x-\frac{1}{6}<\frac{3}{2} \\ \frac{1}{2}x+x-3>-(5+x) \end{cases}$	$-\frac{4}{5}<x<\frac{2}{3}$
16	$\begin{cases} 4\left(\frac{1}{8}x-2\right)-\frac{x}{4}\leq\frac{x+3}{3} \\ \frac{1}{3}x+2>\frac{1}{2}x-\frac{x-5}{6}+1 \end{cases}$	$x\geq 108$
17	$\begin{cases} \frac{1}{2}(2+x)-1>-\frac{1}{3}(x-1) \\ \frac{1}{5}(x+10)<\frac{1}{3}(x+6) \end{cases}$	$x>\frac{2}{5}$
18	$\begin{cases} \frac{1}{2}(x-1)<2x \\ \frac{x+1}{2}<\frac{x-1}{3} \end{cases}$	$impossible$
19	$\begin{cases} \frac{x-1}{2}+\frac{x+1}{2}\geq 0 \\ x+\frac{1}{2}>2x-3 \end{cases}$	$0\leq x<\frac{7}{2}$
20	$\begin{cases} \frac{x+3}{2}+2>\frac{x-1}{3} \\ \frac{x-1}{5}+1<0 \end{cases}$	$-23<x<-4$
21	$\begin{cases} x+1\geq\frac{3}{2}x \\ \frac{3x+1}{2}\geq x+\frac{3}{2} \end{cases}$	$x=2$

22	$\begin{cases} \frac{2x+1}{3} - x \leq \frac{3-x}{2} \\ \frac{x-1}{2} + \frac{2}{3} > \frac{x-1}{6} \end{cases}$	$-1 < x \leq 7$
23	$\begin{cases} 6 + 2x > \frac{x}{3} \\ 2 - x > \frac{5x-1}{2} \end{cases}$	$-\frac{18}{5} < x < \frac{5}{7}$
24	$\begin{cases} \frac{3x-4}{5} + \frac{1}{8} \leq \frac{6x+7}{8} - x + 1 \\ 2x + 2 + \frac{3x-1}{5} < \frac{10x+1}{3} \end{cases}$	$2 < x \leq 3$
25	$\begin{cases} 7(3x+9) \geq 4(5x+16) \\ 9\left(\frac{7}{2}x - 3\right) < 5 - \frac{1}{2}x \end{cases}$	*impossible*
26	$\begin{cases} \frac{x+1}{2} + \frac{3x-4}{5} < \frac{6x+7}{6} - \frac{1}{8} \\ \frac{10x+1}{3} - \frac{3x-1}{5} > 2x + 2 \end{cases}$	$2 < x < \frac{161}{12}$
27	$\begin{cases} \frac{x-1}{5} - x < \frac{4-x}{2} \\ (1-x) + \frac{3}{2}x < 0 \end{cases}$	$-\frac{22}{3} < x < -2$
28	$\begin{cases} \frac{x-1}{3} + \frac{x-2}{2} < 2 \\ x - \frac{3-x}{2} > 1 \end{cases}$	$\frac{5}{3} < x < 4$

29	$\begin{cases} \frac{15x-35}{6} - \frac{3}{4}x > \frac{14}{3} \\ 19(x-7) > 57 \end{cases}$	$x > 10$
30	$\begin{cases} \frac{x}{2} - 1 \leq \frac{x+2}{3} \\ x + 5 > \frac{x-1}{4} \end{cases}$	$-7 < x \leq 10$
31	$\begin{cases} \frac{x}{3} + \frac{x}{5} \leq 8 \\ \frac{x}{2} - \frac{4}{9}x \leq 5 \end{cases}$	$x \leq 15$
32	$\begin{cases} \frac{1-x}{4} - 2\frac{2-x}{3} \geq 3 - x \\ \frac{x}{2} + 3 < x + 1 \end{cases}$	$x > 4$
33	$\begin{cases} \frac{1-x}{2} - 2x \leq -(1+3x) \\ -3(x+2) - 7 \geq \frac{1+x}{-2} \end{cases}$	$x \leq -5$
34	$\begin{cases} 3x - 1 > 4 + x \\ x - 2 > 0 \\ 2x - 1 < x + 3 \end{cases}$	$\frac{5}{2} < x < 4$
35	$\begin{cases} 7 - 2x > 3x - 1 \\ x + 9 < 0 \\ 4(x+1) + 3 > x - 1 \end{cases}$	$impossible$

36	$\begin{cases} 3x+1<7-2x \\ 2x+1\leq x-4 \\ 4x+7>x-1 \end{cases}$	$impossible$
37	$\begin{cases} 5x-2>4x-1 \\ 16x-16<7x+69 \\ 4-3x<4x+11 \end{cases}$	$1<x<\frac{85}{9}$
38	$\begin{cases} 7[(x-1)-6]>0 \\ 3x>2(15-x) \\ \frac{1}{2}x+\frac{1}{3}x>7+\frac{1}{4}x \end{cases}$	$x>12$
39	$\begin{cases} 6x+10<x \\ \frac{x+1}{2}<\frac{1}{3}(x-1) \\ \frac{1}{3}(x-1)>\frac{x}{5} \end{cases}$	$impossible$
40	$\begin{cases} 3x+2<7-2x \\ 48x<3x+10 \\ 11-2(x-3)>1-3(x-5) \end{cases}$	$-1<x<\frac{2}{9}$

41	$\begin{cases} 10x+1<0 \\ 2x-\frac{3}{4}>x-\frac{1}{2} \\ 5x-7+\frac{x}{4}<x-1 \end{cases}$	$impossible$
42	$\begin{cases} x+2>-5x-1 \\ \frac{x+11}{2}-\frac{x-1}{3}>0 \\ \frac{3x-1}{3}-1\geq 0 \end{cases}$	$x>\frac{4}{3}$
43	$\begin{cases} 3(4-x)-5<18x \\ 23-x<\frac{2}{5}x-\frac{1}{4}x \\ \frac{19}{9}x+x<\frac{5x+30}{3} \end{cases}$	$impossible$
44	$\begin{cases} 1-\frac{4x-1}{6}>\frac{1-6x}{3}+\frac{1}{6} \\ \frac{2(x-3)}{3}+\frac{5}{3}\geq\frac{4x-1}{2} \\ 2-\frac{3-4x}{7}>\frac{x+8}{14} \end{cases}$	$-\frac{1}{2}<x<\frac{1}{8}$
45	$\begin{cases} \frac{x-4}{2}>\frac{x-3}{4} \\ \frac{12x-1}{8}>\frac{x+1}{4} \\ \frac{2x-3}{4}>\frac{x+5}{6} \end{cases}$	$x>5$

46	$\begin{cases} \frac{2x+1}{6} > \frac{7x+5}{24} \\ \frac{x-6}{20} < \frac{x-1}{3} \\ \frac{x+4}{3} - \frac{x-4}{5} < 2 + \frac{3x-1}{15} \end{cases}$	$x > 3$
47	$\begin{cases} 18x + 5 > 3(4 - x) \\ \frac{2}{5}x - \frac{x}{4} + x > 23 \\ 5 + \frac{10}{9}x < \frac{5x+30}{3} \end{cases}$	$x > 20$