risolvi i seguenti sistemi di disequazioni di secondo grado intere

1	$\begin{cases} 12(x^2-16)>0 \\ x+2>0 \end{cases}$	$x>4$
2	$\begin{cases} x^2+5x-6<0 \\ 2x+3>x+2 \end{cases}$	$-1<x<1$
3	$\begin{cases} x^2-7x+12\geq 0 \\ x-2\leq 8 \end{cases}$	$x\leq 3 \vee 4\leq x\leq 10$
4	$\begin{cases} x^2+5x-6<0 \\ 2x-5>x+20 \end{cases}$	$\emptyset$
5	$\begin{cases} x^2-5x<0 \\ x-2>0 \end{cases}$	$2<x<5$
6	$\begin{cases} x^2-x-6\leq 0 \\ x^2+3x-4<0 \end{cases}$	$-2\leq x<1$
7	$\begin{cases} x^2+12x+35>0 \\ x^2-x-6>0 \end{cases}$	$x<-7 \vee -5<x<-2 \vee x>3$
8	$\begin{cases} x^2-9x>0 \\ 5x^2-7x+1>0 \end{cases}$	$x<0 \vee x>9$
9	$\begin{cases} x^2-5x+6>0 \\ x^2-16<0 \end{cases}$	$-4<x<2 \vee 3<x<4$
10	$\begin{cases} 3x^2-5x-2>0 \\ x^2-4x+3<0 \end{cases}$	$2<x<3$

11	$\begin{cases} x^2 - 5x + 6 > 0 \\ (2x - 3)(x + 1) < 0 \end{cases}$	$-1 < x < \frac{3}{2}$
12	$\begin{cases} (x + 3)^2 > x^2 - 9 \\ (x + 1)^2 > (x + 2)^2 \end{cases}$	$-3 < x < -\frac{3}{2}$
13	$\begin{cases} 7x(x + 2) - 2 > x + 4(5x^2 - 3x) + 5(5x - 3) \\ 2(x + 6) + x^2 \leq 2x(2x + 1) \end{cases}$	$\emptyset$
14	$\begin{cases} 3(4x + 1)(4x - 1) > 6 - x^2 \\ 3(x^2 - 2) < 43 \end{cases}$	$-\frac{7}{\sqrt{3}} < x < -\frac{3}{7} \vee \frac{3}{7} < x < \frac{7}{\sqrt{3}}$
15	$\begin{cases} (3x - 5)(2x - 5) > (x + 3)(x - 1) \\ 4(x^2 - 1) < 4x - 1 \end{cases}$	$-\frac{1}{2} < x < \frac{7}{5}$
16	$\begin{cases} 2(5x^2 - 9) < 6x^2 + 63 \\ 3x - 2 \leq 5 - \frac{x}{2} \end{cases}$	$-\frac{9}{2} < x \leq 2$
17	$\begin{cases} -x(x + 2) > -2 \\ \frac{x}{4} \leq x - \frac{5 - x}{2} + \frac{5}{2} \end{cases}$	$0 \leq x < -1 + \sqrt{3}$
18	$\begin{cases} 4x - 1 > \frac{1}{3}(x - 2) + 2x \\ x^2 - 3x + 2 > 0 \end{cases}$	$\frac{1}{5} < x < 1 \vee x > 2$
19	$\begin{cases} 3x^2 \leq 4x + 7 \\ \frac{2x - 3}{5} + \frac{x}{2} < \frac{x - 5}{2} + 3 \end{cases}$	$-1 \leq x \leq \frac{7}{3}$
20	$\begin{cases} x\left(x - \frac{1}{4}\right) < x^2 - \frac{1}{36} - \frac{x}{3} + \frac{1}{12} \\ 3x + 2 > 4x(x - 1) \end{cases}$	$-\frac{1}{4} < x < \frac{2}{3}$

21	$\begin{cases}\frac{x}{2}(x+1)-x-\frac{x}{2}>2-x^2+2(x+1)\\ x(x-5+2x-10)<0\end{cases}$	$\frac{3+\sqrt{33}}{3}<x<5$
22	$\begin{cases}2\left(x-\frac{1}{2}\right)x+2x-\frac{1}{3}>4\left(x-\frac{1}{3}\right)\\ (x-1)^2+1<3(1-x)\end{cases}$	$\frac{-1-\sqrt{5}}{2}<x<\frac{1}{2}$
23	$\begin{cases}\frac{x}{2}(x+1)-3x+5>2\\ x^2+3x-4>0\end{cases}$	$x<-4 \vee 1<x<2 \vee x>3$
24	$\begin{cases}x\left(x+\frac{1}{2}\right)-3x-1<-\frac{3}{2}x-\frac{1}{4}\\ 2x^2-3x+4>0\end{cases}$	$-\frac{1}{2}<x<\frac{3}{2}$
25	$\begin{cases}2\left(x-\frac{1}{2}\right)x+2x-\frac{1}{3}>4\left(x-\frac{1}{3}\right)\\ (x-1)^2+1<3(1-x)\end{cases}$	$\frac{-1-\sqrt{5}}{2}<x<\frac{1}{2}$
26	$\begin{cases}\frac{x}{2}(x+1)-3x+5>2\\ x^2+3x-4>0\end{cases}$	$x<-4 \vee 1<x<2 \vee x>3$
27	$\begin{cases}x\left(x+\frac{1}{2}\right)-3x-1<-\frac{3}{2}x-\frac{1}{4}\\ 2x^2-3x+4>0\end{cases}$	$-\frac{1}{2}<x<\frac{3}{2}$
28	$\begin{cases}(3x+1)^2\leq\left(x-\frac{5}{3}\right)+1+\frac{2}{3}x\\ (3x-2)x+x-\frac{2}{3}<\frac{4}{3}-2x\end{cases}$	$\emptyset$
29	$\begin{cases}\left(x-\frac{1}{2}\right)^2+\frac{(x-3)^2}{4}-33>\frac{3-10x}{4}\\ x\left(x-\frac{1}{2}\right)<\frac{1}{2}\end{cases}$	$\emptyset$
30	$\begin{cases}\frac{x^2}{2}-\frac{1-6x^2}{12}>\frac{4-x^2}{3}\\ \frac{x(x+4)}{9}-1<x-\frac{2x+1}{3}\end{cases}$	$-3<x<-\frac{\sqrt{17}}{4} \vee \frac{\sqrt{17}}{4}<x<2$

31	$\begin{cases} \frac{(x^2-1)}{2}-\frac{2}{3}(x+1)>\frac{x-5}{6} \\ \frac{x+1}{2}+\frac{2x-3}{4}\leq x^2-1 \end{cases}$	$x\leq -\frac{1}{2}\ \vee\ x>2$
32	$\begin{cases} 3x^2-2x+7<0 \\ 2x\left(2x-\frac{1}{3}\right)>\frac{7}{4}x+5 \end{cases}$	$\emptyset$
33	$\begin{cases} \frac{x^2}{2}+\frac{x+1}{5}>-2 \\ \frac{x-2}{7}-\frac{x^2-1}{2}<3 \end{cases}$	R
34	$\begin{cases} x(x-4)+\frac{3x+1}{4}\geq\frac{3}{4}(1+x)-\frac{3}{4} \\ 3x^2+7x+2>0 \end{cases}$	$x<-2\ \vee -\frac{1}{3}<x\leq\frac{4-\sqrt{15}}{2}\vee x\geq\frac{4+\sqrt{15}}{2}$
35	$\begin{cases} 3x-\frac{1}{2}>x+\frac{3}{2}(x-5) \\ x(x+8)-27\leq 3(x-1) \end{cases}$	$-8\leq x\leq 3$
36	$\begin{cases} \frac{x+2}{5}+\frac{x^2+1}{2}\geq 3 \\ (2x-1)^2-3x(x-1)\leq x+9 \end{cases}$	$\frac{\sqrt{106}-1}{5}\leq x\leq 4$
37	$\begin{cases} x(x-2)+\frac{5}{2}x>6(x-1)-\frac{x}{2} \\ \frac{(x+1)^2}{3}+\frac{x^2-1}{2}-3x\leq\frac{3}{2}(x+1)^2-\frac{2x^2-11}{3} \end{cases}$	$-1\leq x<2\ \vee x>3$
38	$\begin{cases} (x+1)^2-\frac{5}{2}<x(x+1)+\frac{x}{2} \\ \frac{2-x^2-4x}{5}<\frac{x+5}{2}-\frac{(2x-3)(x-1)}{10} \end{cases}$	$-1<x<3$

39	$\begin{cases} 3x^2-8x+5>\dfrac{(5x-8)^2-(4x-7)^2}{3} \\ \dfrac{x}{2}+\dfrac{2x-1}{3}>3 \end{cases}$	$\emptyset$
40	$\begin{cases} 2x-\dfrac{2(x-2)}{3}\geq x-1+\dfrac{x-1}{2} \\ 3\left(x+\dfrac{1}{3}\right)^2>\left(x-\dfrac{1}{3}\right)(x-3) \end{cases}$	$x<-\dfrac{4+\sqrt{19}}{3} \vee \dfrac{\sqrt{19}-4}{3}<x\leq 17$
41	$\begin{cases} \dfrac{7}{4}-\dfrac{3}{2}(4x-1)\geq(3x-1)^2 \\ 2x^2-\dfrac{x}{2}>x^2-\dfrac{2}{5}\left(x-\dfrac{11}{10}\right)-\dfrac{x}{10} \end{cases}$	$\emptyset$
42	$\begin{cases} \dfrac{x(2x-1)}{2}-\dfrac{(3x-1)(x+2)}{6}+2\dfrac{(x^2-1)}{3}>\dfrac{1-2x}{2} \\ (3x-2)^2<2(x^2+6)+2x(3x-2) \end{cases}$	$4-2\sqrt{6}<x<-\dfrac{5}{7} \vee 1<x<4+2\sqrt{6}$
43	$\begin{cases} x(x-\sqrt{2})-\dfrac{(x\sqrt{2}-1)^2}{2}+\dfrac{x+\sqrt{2}}{2}>1 \\ \left(\dfrac{1}{3}x-2\right)(x-1)+(x-1)^2<x^2-x \end{cases}$	$3-\sqrt{2}<x<9$
44	$\begin{cases} x+3>0 \\ 4x^2-x+1>0 \\ x^2+x-2\geq 0 \end{cases}$	$-3<x\leq -2 \vee x\geq 1$
45	$\begin{cases} x+50>10x \\ (x-3)^2+3x^2-4<(2x-1)^2 \\ (x+3)^2>x^2-7x+9 \end{cases}$	$2<x<\dfrac{50}{9}$

46	$\begin{cases} x > 2 \\ 6(x-1) - 1 > x(x-2) \\ x(x-2) \leq 4(x-1) - 5 \end{cases}$	$x = 3$
47	$\begin{cases} x - x^2 > 0 \\ 2x^2 + 3x - 5 < 0 \\ x^2 + 5x + 6 > 0 \end{cases}$	$0 < x < 1$
48	$\begin{cases} x^2 + 3x + 2 > 0 \\ 4(x+1) > 1 - x^2 \\ x^2 + x + 1 < 0 \end{cases}$	$\emptyset$
49	$\begin{cases} 2x(x+5) > 3(x+1)^2 \\ x^2 + 4x + 3 > 3(x-1)^2 \\ x^2 - 16 < (2x-7)^2 \end{cases}$	$1 < x < 3$
50	$\begin{cases} \frac{2x+1}{5} - \frac{2-x}{3} > 1 \\ x^2 - 6x + 7 < 0 \\ x^2 - 8x + 15 > 0 \end{cases}$	$2 < x < 3$
51	$\begin{cases} \frac{x+2}{4} + \frac{x}{3} < \frac{x-4}{2} \\ \frac{5x-2}{3} + 1 > \frac{2x-3}{2} \\ x^2 - 2x - 3 > 0 \end{cases}$	$\emptyset$
52	$\begin{cases} (x-1)^2 < (2x+1)(x+1) \\ 12x^2 + x - 1 > 0 \\ x^2 + 6x < 6 + \frac{x}{8} + \frac{(x+2)(2x-3)}{4} \end{cases}$	$-12 < x < -5 \vee \frac{1}{4} < x < \frac{3}{4}$

53	$\begin{cases} 2x^2 > 3(9-x) \\ x\dfrac{x-5}{5} < 5x + \dfrac{64}{5} \\ (x+4)(2x+5) > 0 \end{cases}$	$3 < x < 32$
54	$\begin{cases} (3x-5)^2 < 12x - 5 \\ (2x+1)(2x-3) - 4x + 6 > \left(x + \dfrac{1}{2}\right)^2 \\ 2x - \dfrac{x^2-7}{4} > \dfrac{4x-1}{2} \end{cases}$	$\dfrac{9+4\sqrt{3}}{6} < x < 3$
55	$\begin{cases} \left(x + \dfrac{3}{2}\right)^2 \geq \dfrac{9}{4} \\ x + \dfrac{7}{4} < \dfrac{3}{4} \\ (x+5)^2 = x + 5 \end{cases}$	$x = -5 \quad x = -4$
56	$\begin{cases} x^2 + 2x - 3 > 0 \\ x + \dfrac{19}{2} \geq \dfrac{7}{2} \\ x^2 + x - 12 \geq 0 \end{cases}$	$-6 \leq x \leq -4 \vee x \geq 3$
57	$\begin{cases} \dfrac{x+3}{2} > \dfrac{2x+9}{6} \\ 2(x+2) - 4 < 3(x+2)^2 - 7 \\ 2x + 3(x+2) < 16 \end{cases}$	$0 < x < 2$

risolvi i seguenti sistemi di disequazioni di secondo grado frazionarie

58	$\begin{cases} x^2-5x+6<0 \\ \dfrac{x-2}{x+1}\geq 0 \end{cases}$	$2<x<3$
59	$\begin{cases} \dfrac{x-2}{x+3}\geq 0 \\ 7+2x>-\dfrac{x^2}{7} \end{cases}$	$x<-7 \ \vee \ -7<x<-3 \ \vee \ x\geq 2$
60	$\begin{cases} \dfrac{1+x^2}{3x}\leq 0 \\ x<(x+2)(3-x) \end{cases}$	$-\sqrt{6}<x<0$
61	$\begin{cases} \dfrac{x-1}{x+2}\leq \dfrac{-1}{x-3} \\ 3-\dfrac{4-x}{3}+\dfrac{3-x}{2}\geq 2 \end{cases}$	$-2<x<3$
62	$\begin{cases} 2+\dfrac{1}{x}<\dfrac{2}{5x} \\ \dfrac{2x-1}{2}\cdot\dfrac{x}{4}+\dfrac{6x-1}{4}\leq\left(\dfrac{x}{2}+1\right)^2+\dfrac{3}{8}x \end{cases}$	$-\dfrac{3}{10}<x<0$
63	$\begin{cases} (x-\sqrt{2})(x+\sqrt{2})\geq 2(-x-1)-1 \\ \dfrac{x^2-5x+6}{x^2-6x-7}>0 \end{cases}$	$x<-1 \ \vee 2<x<3 \ \vee x>7$
64	$\begin{cases} \dfrac{2x-5}{x^2-4}\geq 0 \\ \dfrac{x^2-3x}{2+3x}<0 \end{cases}$	$-2<x<-\dfrac{2}{3} \vee 0<x<2 \vee \dfrac{5}{2}\leq x<3$

65	$\begin{cases} \frac{3x-1}{x-1}+\frac{x+3}{2x-2}>2 \\ \frac{3x-x^2+10}{x^2-2x+1}\geq 0 \end{cases}$	$-2\leq x<-\frac{5}{3} \vee 1<x\leq 5$
66	$\begin{cases} \frac{x^2-2x}{(x+1)(5-x)}\geq 0 \\ \frac{x+1}{x^2-9}<\frac{1}{x+3} \end{cases}$	$-1<x\leq 0 \vee 2\leq x<3$
67	$\begin{cases} \frac{14}{x+2}<0 \\ (x+10)(8-x)>0 \\ \frac{14-x}{18}>0 \end{cases}$	$-10<x<-2$
68	$\begin{cases} \frac{x+2}{4}-\frac{x-4}{2}<3-\frac{x}{3} \\ \frac{5x-2}{3}+1>\frac{2x-3}{2} \\ x^2-2x-3>0 \end{cases}$	$-\frac{11}{4}<x<-1 \vee 3<x<6$
69	$\begin{cases} -x^2+6x+7>0 \\ -x^2+8x-15<0 \\ \frac{2x+1}{5}-1>\frac{2-x}{3} \end{cases}$	$2<x<3 \vee 5<x<7$