Sistemi di equazioni di primo grado

PASSED

sistemi equazioni di primo grado di due equazioni in due incognite intere

1	$\begin{cases} x+y=-5 \\ x-y=5 \end{cases}$	$(0;-5)$
2	$\begin{cases} x-y=-1 \\ x+y=7 \end{cases}$	$(3;4)$
3	$\begin{cases} x-y+2=0 \\ x=10-y \end{cases}$	$(4;6)$
4	$\begin{cases} 2x+y=0 \\ x+6y=-11 \end{cases}$	$(1;-2)$
5	$\begin{cases} x+y=-4 \\ 2x-y=1 \end{cases}$	$(-1;-3)$
6	$\begin{cases} x-y=-1 \\ -2x-y=+5 \end{cases}$	$(-2;-1)$
7	$\begin{cases} 3x+y=1 \\ x-y-3=0 \end{cases}$	$(1;-2)$
8	$\begin{cases} 6x+2y=-4 \\ 2x-y=-3 \end{cases}$	$(-1;1)$
9	$\begin{cases} 3x=2y-1 \\ 3x-y=0 \end{cases}$	$\left(\frac{1}{3};1\right)$
10	$\begin{cases} 5x-y=1 \\ -2x+y=5 \end{cases}$	$(2;9)$
11	$\begin{cases} x+y=-7 \\ x+15y=-63 \end{cases}$	$(-3;-4)$
12	$\begin{cases} -x+y=+2 \\ x-y=-8 \end{cases}$	*impossibile*
13	$\begin{cases} x-y=6 \\ 3x-3y=18 \end{cases}$	*indeterminata*
14	$\begin{cases} 2x-8y-4=0 \\ 2x=6+8y \end{cases}$	*impossibile*

Sistemi di equazioni di primo grado

PASSED

15	$\begin{cases} x+y=5 \\ 3x-y=7 \end{cases}$	$(3;\ 2)$
16	$\begin{cases} 4x-3y=-1 \\ 3x-2y=0 \end{cases}$	$(2;\ 3)$
17	$\begin{cases} 3x+2y=1 \\ x-y=-3 \end{cases}$	$(-1;\ 2)$
18	$\begin{cases} 3x-y=1 \\ 5x-3y=1 \end{cases}$	$\left(\frac{1}{2};\ \frac{1}{2}\right)$
19	$\begin{cases} 6x+2y=-9 \\ 6x-6y=-13 \end{cases}$	$\left(-\frac{5}{3};\ \frac{1}{2}\right)$
20	$\begin{cases} 4x-2y=2 \\ 3x-2y=3 \end{cases}$	$(-1;\ -3)$
21	$\begin{cases} x-y=-1 \\ 6x-4y=-3 \end{cases}$	$\left(\frac{1}{2};\ \frac{3}{2}\right)$
22	$\begin{cases} -4x-2y-8=0 \\ -2x-y=4 \end{cases}$	*Indeterminata*
23	$\begin{cases} 2x+3y=-1 \\ 2x+5y=-11 \end{cases}$	$(7;\ -5)$
24	$\begin{cases} 6x+y=-10 \\ 7x+2y=-5 \end{cases}$	$(-3;\ 8)$
25	$\begin{cases} 8x=9y-1 \\ 8x=5y+2 \end{cases}$	$\left(\frac{23}{32};\ \frac{3}{4}\right)$
26	$\begin{cases} 3x-2y=2 \\ 15x-10y=1 \end{cases}$	*impossibile*
27	$\begin{cases} 2x-y=-3 \\ 6x-3y=-9 \end{cases}$	*indeterminato*
28	$\begin{cases} 2x+6y=3 \\ 4x-3y=1 \end{cases}$	$\left(\frac{1}{2};\ \frac{1}{3}\right)$

Sistemi di equazioni di primo grado

PASSED

29	$\begin{cases} x+2y=3 \\ 3x+2y=7 \end{cases}$	$\left(2;\ \frac{1}{2}\right)$
30	$\begin{cases} 3x+2y=4 \\ 5x+4y=7 \end{cases}$	$\left(1;\ \frac{1}{2}\right)$
31	$\begin{cases} 4x+3y=3 \\ 2x+3y=2 \end{cases}$	$\left(\frac{1}{2};\ \frac{1}{3}\right)$
32	$\begin{cases} \frac{1}{3}x-2y=0 \\ 5x+4y=7 \end{cases}$	$\left(\frac{21}{17};\ \frac{7}{34}\right)$
33	$\begin{cases} 2x-y=1 \\ 6x-3y=3 \end{cases}$	*indeterminato*
34	$\begin{cases} 2x-4y=3 \\ 4x-8y=5 \end{cases}$	*impossibile*
35	$\begin{cases} 3x-2y=7 \\ 2x+y=0 \end{cases}$	$(1;\ -2)$
36	$\begin{cases} 2x-7=0 \\ y+3=0 \end{cases}$	$\left(\frac{7}{2};\ -3\right)$
37	$\begin{cases} 3x-1=0 \\ 5+2x=0 \end{cases}$	*impossibile*
38	$\begin{cases} 3x-y=5 \\ y=x-1 \end{cases}$	$(2;\ 1)$
39	$\begin{cases} 3x+2y=7 \\ 6x+4y=14 \end{cases}$	*indeterminato*

Sistemi di equazioni di primo grado

PASSED

40	$\begin{cases} x+2y-1=0 \\ x-2y+2=0 \end{cases}$	$\left(-\frac{1}{2};\ \frac{3}{4}\right)$
41	$\begin{cases} 4y+12=0 \\ 2x-3y=7 \end{cases}$	$(-1;\ -3)$
42	$\begin{cases} 4x-3y-2=0 \\ -8x+6y-1=0 \end{cases}$	*impossibile*
43	$\begin{cases} 2x+y-2=0 \\ 3x-y-3=0 \end{cases}$	$(1;\ 0)$
44	$\begin{cases} 2x-3y=4 \\ 4x-6y=8 \end{cases}$	*indeterminato*
45	$\begin{cases} y=3x-6 \\ 2x-5y=0 \end{cases}$	$\left(\frac{30}{13};\ \frac{12}{13}\right)$
46	$\begin{cases} 2x-y+1=0 \\ x-y+6=0 \end{cases}$	$(5;\ 11)$
47	$\begin{cases} 5x-3y=4 \\ 5x-y=2 \end{cases}$	$\left(\frac{1}{5};\ -1\right)$
48	$\begin{cases} 2x-4y=15 \\ 4x+4y=9 \end{cases}$	$\left(4;\ -\frac{7}{4}\right)$
49	$\begin{cases} 4x-3y=1 \\ x+2y=3 \end{cases}$	$(1;\ 1)$
50	$\begin{cases} 2(2y-x)=6(x-1) \\ 3=4x-2y \end{cases}$	*indeterminato*
51	$\begin{cases} 4x-3y-2=0 \\ 3x+4y-1=0 \end{cases}$	$\left(\frac{11}{25};\ -\frac{2}{25}\right)$

Sistemi di equazioni di primo grado

PASSED

52	$\begin{cases} 3x - y = 3 \\ 2x + y = 7 \end{cases}$	$(2;\ 3)$
53	$\begin{cases} 2x - 5y = 12 \\ 4x + 3y = -2 \end{cases}$	$(1;\ -2)$
54	$\begin{cases} 3x + 4y = 18 \\ 4x - 3y = -1 \end{cases}$	$(2;\ 3)$
55	$\begin{cases} 2x + 3y = 7 \\ 3x - y = 5 \end{cases}$	$(2;\ 1)$
56	$\begin{cases} 4x + 5y = -3 \\ x + 3y = 1 \end{cases}$	$(-2;\ 1)$
57	$\begin{cases} 2x - 3y = 4 \\ x - 2y = 1 \end{cases}$	$(5;\ 2)$
58	$\begin{cases} 7x + 5y = 7 \\ 2x - y = 19 \end{cases}$	$(6;\ -7)$
59	$\begin{cases} 7x - y = 2 \\ 3x + y = 8 \end{cases}$	$(1;\ 5)$
60	$\begin{cases} 3x + 2y = -2 \\ 5x + 7y = 4 \end{cases}$	$(2;\ 2)$
61	$\begin{cases} y = 15x \\ 5x - 2y = 5 \end{cases}$	$\left(-\frac{1}{5};\ -3\right)$
62	$\begin{cases} 3x - 2y = 4 \\ x - 2y = -8 \end{cases}$	$(6;\ 7)$
63	$\begin{cases} 3x - 2y = 4 \\ 2x + 3y = 7 \end{cases}$	$(2;\ 1)$

64	$\begin{cases} x = y - 3 \\ 4x + 7y = 10 \end{cases}$	$(-1;\ 2)$
65	$\begin{cases} 3x + 3y = 6 \\ x + y = 1 \end{cases}$	*impossibile*
66	$\begin{cases} -x - y = -\frac{1}{2} \\ x + y = 2 \end{cases}$	*impossibile*
67	$\begin{cases} 5x - 7y = \frac{1}{6} \\ \frac{4}{3}x - \frac{3}{5}y = \frac{7}{15} \end{cases}$	$\left(\frac{1}{2};\ \frac{1}{3}\right)$
68	$\begin{cases} \frac{3x - 2y}{3} - (y - x) = 0 \\ 2x + \frac{1}{2}y - 3 = \frac{7x - 5}{3} \end{cases}$	$(5;\ 6)$
69	$\begin{cases} y - 3x = 1 \\ x - \frac{1}{3}y = -\frac{1}{3} \end{cases}$	*indeterminato*
70	$\begin{cases} \frac{x}{2} + 3y = \frac{3}{5} \\ x - 5y = 2 \end{cases}$	$\left(\frac{18}{11};\ -\frac{4}{55}\right)$
71	$\begin{cases} \frac{3}{2}x + y = 19 \\ y + \frac{4}{3}x = 17 \end{cases}$	$(12;\ 1)$
72	$\begin{cases} 3x - y + 4 = 0 \\ x - \frac{2y + 1}{6} = 1 \end{cases}$	*impossibile*

73	$\begin{cases} y = \frac{1}{3}x + 2 \\ x + 3y + 3 = 0 \end{cases}$	$\left(-\frac{9}{2};\ \frac{1}{2}\right)$
74	$\begin{cases} y = \frac{1}{2}x + \frac{5}{4} \\ 2x - y + \frac{7}{2} = 0 \end{cases}$	$\left(-\frac{3}{2};\ \frac{1}{2}\right)$
75	$\begin{cases} \frac{1}{5}x + \frac{1}{4}y = \frac{3}{4} \\ x - 3y = -9 \end{cases}$	$(0;\ 3)$
76	$\begin{cases} 3x - 7y = \frac{5}{2} \\ 3(y-1) = -x + \frac{1}{2} \end{cases}$	$\left(2;\ \frac{1}{2}\right)$
77	$\begin{cases} x + y = 2 \\ y + \frac{3}{7} = 0 \end{cases}$	$\left(\frac{17}{7};\ -\frac{3}{7}\right)$
78	$\begin{cases} 7x - 3y = -\frac{1}{4} \\ 2x + \frac{3}{5}y = \frac{7}{4} \end{cases}$	$\left(\frac{1}{2};\ \frac{5}{4}\right)$
79	$\begin{cases} 3x + y = 15 \\ \frac{5}{4}x + \frac{2}{3}y = 7 \end{cases}$	$(4;\ 3)$
80	$\begin{cases} \frac{11}{4}x - 14 = \frac{1}{8}y \\ \frac{6}{7}x = 4 - \frac{1}{7}y \end{cases}$	$(5;\ -2)$
81	$\begin{cases} x + 2y = 4 - x \\ 2 - 7x - 2y = 2x + 3y \end{cases}$	$(-2;\ 4)$

82	$\begin{cases} 4(4-x)-24=y+2x-24 \\ 3(x-y)-x^2-1=2(8-2y)-x-(x+1)^2 \end{cases}$	*indeterminato*
83	$\begin{cases} 20y-2(x-3)=5(5y-2) \\ 21(1-x)=2(y-5)-12x \end{cases}$	$(3;\ 2)$
84	$\begin{cases} \frac{3-2x}{3}+\frac{y}{6}=\frac{x}{4} \\ 3x-y=1 \end{cases}$	$(2;\ 5)$
85	$\begin{cases} \frac{1}{2}x-\frac{1}{3}y=1 \\ 3x=5(y+3) \end{cases}$	$(0;\ -3)$
86	$\begin{cases} \frac{1}{2}y-2=\frac{2}{3}x \\ \frac{5}{12}+\frac{2x-1}{3}=\frac{1+y}{2} \end{cases}$	*impossibile*
87	$\begin{cases} \frac{2x-7}{2}-\frac{2(x-y)}{3}=0 \\ \frac{x-y}{2}-\frac{7x-y}{6}=-2 \end{cases}$	$\left(\frac{1}{2};\ 5\right)$
88	$\begin{cases} \frac{6x-4y-3}{10}-\frac{x+y}{2}=0 \\ \frac{5y-4}{3}+\frac{2}{3}=x \end{cases}$	$\left(-\frac{3}{2};\ -\frac{1}{2}\right)$
89	$\begin{cases} \frac{4x-7}{10}+\frac{1}{2}y-\frac{3y+x}{5}=-\frac{3}{10} \\ \frac{x}{3}-\frac{2}{3}=\frac{1}{6}y \end{cases}$	*indeterminato*
90	$\begin{cases} \frac{x+y}{2}=x+y+\frac{1}{2} \\ \frac{5x-15}{2}=\frac{y}{2}-1 \end{cases}$	$(2;\ -3)$

Sistemi di equazioni di primo grado

PASSED

91	$\begin{cases} \frac{x}{2}+\frac{x-3y}{5}+6=x+y \\ 2x-y+\frac{1}{2}=\frac{5y-3x}{2}+4 \end{cases}$	$(4;\ 3)$
92	$\begin{cases} \frac{3}{4}(1+2x)+\frac{x-y}{4}=\frac{2x+1}{2} \\ \frac{x+1}{2}=\frac{2x-y}{3} \end{cases}$	$(-1;\ -2)$
93	$\begin{cases} \frac{1}{2}(x-1)-\frac{3}{2}y=-5 \\ \frac{1}{3}x+\frac{3}{2}y=7 \end{cases}$	$(3;\ 4)$
94	$\begin{cases} x-y=\frac{2}{5}x-\frac{1}{4}y \\ \frac{2x-y}{3}+17y=\frac{7}{2} \end{cases}$	$\left(\frac{1}{4};\ \frac{1}{5}\right)$
95	$\begin{cases} \frac{1}{3}x-\frac{1}{5}y=\frac{1}{90} \\ \frac{1}{3}x-\frac{1}{4}y=-\frac{1}{72} \end{cases}$	$\left(\frac{1}{3};\ \frac{1}{2}\right)$
96	$\begin{cases} x-\frac{x-2y}{15}=\frac{46}{15} \\ 2x-\frac{x+2y}{2}=11+2y \end{cases}$	$\left(\frac{32}{9};\ -\frac{17}{9}\right)$
97	$\begin{cases} \frac{x+y+3}{2}+2x=4 \\ \frac{x+y-1}{3}+\frac{4}{3}y=2 \end{cases}$	$\left(\frac{3}{4};\ \frac{5}{4}\right)$
98	$\begin{cases} x+\frac{1}{2}y=2 \\ 4x+2y=5 \end{cases}$	*impossibile*
99	$\begin{cases} 3x-\frac{1}{5}y=6 \\ -15x+y=-30 \end{cases}$	*indeterminato*

100	$\begin{cases} 3x+2y=4 \\ 2y-\frac{3}{2}(x+3)=-5 \end{cases}$	$\left(1;\ \frac{1}{2}\right)$
101	$\begin{cases} x+2y=2(2x-y+5) \\ 2-3x=y-1+2(x+6) \end{cases}$	$(-2;\ 1)$
102	$\begin{cases} 3x-5=2(y+1)-8 \\ 2(x-1)=3(1-2y)+9 \end{cases}$	$(1;\ 2)$
103	$\begin{cases} x-2[y-(x+1)]=12 \\ 3x-2(y+3)=4 \end{cases}$	*indeterminato*
104	$\begin{cases} \frac{1}{2}x-y=3 \\ x+\frac{1}{3}y=\frac{11}{3} \end{cases}$	$(4;\ -1)$
105	$\begin{cases} 3x-2(y+1)=x+2(x-y) \\ x+4y=0 \end{cases}$	*impossibile*
106	$\begin{cases} \frac{1}{3}\left(\frac{x-2}{4}-\frac{y+1}{2}\right)=-\left(\frac{3x-2}{3}-\frac{y-3}{2}\right)+3 \\ 2^{-1}[4x-(2y-x)]=\frac{1-y}{10}-\left(5^{-1}x-\frac{23}{4}\right) \end{cases}$	$\left(2;\ -\frac{1}{2}\right)$
107	$\begin{cases} \frac{2x-1}{5}-\frac{y+1}{2}=\frac{x-y}{2}-\frac{x+3}{10} \\ \frac{1}{2}(x+1)-3y=2 \end{cases}$	*impossibile*
108	$\begin{cases} \frac{3x+1}{2}-\frac{2y-1}{3}=\frac{2}{3}(2x-y)+\frac{2+x}{6} \\ \frac{x}{3}-\frac{y}{2}=1 \end{cases}$	*impossibile*

109	$\begin{cases} \frac{2x-1}{15} = -\frac{y-1}{9} \\ \frac{x-y}{3} + \frac{1}{6} = \frac{2x-y}{8} \end{cases}$	$\left(\frac{1}{2};\ 1\right)$
110	$\begin{cases} \frac{3x-2y+21}{6} - \frac{3y-2x}{4} = 2 \\ \frac{2x-y}{4} + \frac{x+y}{3} = \frac{14}{3} \end{cases}$	$(5;\ 6)$
111	$\begin{cases} \frac{3}{2}x + 4y = \frac{1}{2} + 2y + \frac{7}{4}x \\ \frac{1}{5}y - \frac{2}{5}x + 1 = \frac{1}{4}x - \frac{2}{5}y \end{cases}$	$\left(2;\ \frac{1}{2}\right)$
112	$\begin{cases} \frac{1}{8}\left(\frac{1}{2} + y\right) = \frac{x+6y}{2} + \frac{7}{6} - 2y \\ (x-2)(y+1) = y(x-1) - \frac{31}{6} \end{cases}$	$\left(-\frac{31}{11};\ \frac{23}{66}\right)$
113	$\begin{cases} \frac{2y+2}{3} = 1 + \frac{3x+1}{12} \\ \frac{6x+1}{2} - 5 = \frac{1}{4} - \frac{3+4y}{4} \end{cases}$	$(1;\ 1)$
114	$\begin{cases} \frac{x+2}{5} - \frac{y-4}{6} = \frac{17}{30} \\ 4(x-1) + 3y = x + y + 2 \end{cases}$	$(0;\ 3)$
115	$\begin{cases} \frac{4x+6y}{3} + 3x = \frac{25}{3} \\ \frac{5x-7}{4} + \frac{2x-y}{2} = -\frac{y+3}{10} \end{cases}$	$(1;\ 2)$
116	$\begin{cases} \frac{4x-y}{3} - \frac{x}{2} - \frac{3x-2y}{4} = -\frac{1}{2} \\ \frac{x-3y}{4} + \frac{x+y+1}{8} + \frac{y}{2} = -\frac{3}{8} \end{cases}$	$(-2;\ -2)$
117	$\begin{cases} \frac{4x+3}{5} - \frac{2x-3y}{10} = \frac{1}{2} - \frac{x+4y}{5} \\ \frac{x}{2} + \frac{4+y}{3} = \frac{2(x+y+4)}{5} + \frac{1}{3} \end{cases}$	$(4;\ -3)$

118	$\begin{cases} \frac{7}{2}+\frac{y-x}{2}=3\left(\frac{1}{2}y-\frac{1}{2}x\right) \\ \frac{6}{5}-\frac{3(x-2y)}{10}=\frac{1}{2}y-\frac{1}{5}x \end{cases}$	*impossibile*
119	$\begin{cases} (x-1)(x+1)=x^2+y^2+3-(y-2)^2 \\ (y-3x)(y+3x)-y^2+3x=4-9x^2-2y \end{cases}$	$\left(\frac{4}{3};\ 0\right)$
120	$\begin{cases} (y-x)^2-(y-3)(y+2)=x(x-5)-2y(x+4)+x \\ \frac{1}{2}x^2=\frac{1}{2}(x+y)^2-\frac{1}{2}(y-1)^2-x(y-3) \end{cases}$	$\left(\frac{21}{46};\ -\frac{20}{23}\right)$
121	$\begin{cases} 2y+\left(2-\frac{4}{3}\right)x=\left(2-\frac{1}{2}\right)y \\ \frac{1}{3}x+\frac{1}{2}y=\frac{5}{6}+\left(\frac{1}{2}-\frac{1}{3}\right)(x+y) \end{cases}$	$(-3;\ 4)$
122	$\begin{cases} \frac{x+y}{-\frac{4}{5}+2}+\frac{5}{4}x-\frac{1}{12}=\frac{4y+3}{1+\frac{1}{2}}-\frac{x-1}{\frac{2}{3}-1} \\ \left(\frac{3x-y}{6}+\frac{y-1}{2}\right)\left(2-\frac{3}{4}\right)^{-1}=\left(\frac{1}{2}+1\right)\left(\frac{2}{5}x+\frac{1}{3}y\right)+\frac{2}{5} \end{cases}$	$(-11;\ 6)$
123	$\begin{cases} \frac{(x-1)(2y-1)}{2}-\frac{(3x-2)(y+1)}{3}=\frac{1}{2}y-\frac{2}{3}x-\frac{1}{2} \\ \frac{1}{2}(3x-2y+4)+\frac{1}{5}(y-x-1)=\frac{23}{10} \end{cases}$	$(1;\ 1)$
124	$\begin{cases} \frac{5}{3}x-\frac{y}{2}=\frac{7}{12} \\ \frac{7}{2}x-\frac{10}{3}y=\frac{1}{2} \end{cases}$	$\left(\frac{1}{2};\ -\frac{1}{2}\right)$
125	$\begin{cases} \frac{3x+2}{3}-\frac{2y+1}{6}=\frac{3}{2} \\ \frac{x+1}{2}+\frac{y-2}{4}=\frac{7}{4} \end{cases}$	$(2;\ 3)$

126	$\begin{cases} \dfrac{3x-2y+2}{4}-\dfrac{2x+y-3}{2}=\dfrac{1}{2} \\ \dfrac{x-3y+4}{3}+\dfrac{5x-y-4}{4}=\dfrac{9}{4} \end{cases}$	$(2;\ 1)$
127	$\begin{cases} (4x-5)(3y-2)-(2x-1)(6y+5)=-3 \\ 3x-2(x-y)=3y+4 \end{cases}$	$(2;\ -2)$
128	$\begin{cases} \dfrac{3x+2}{5}-\dfrac{2x-y}{4}=\dfrac{2x+y-3}{2}-\dfrac{9}{5} \\ \dfrac{2x-3y}{4}+\dfrac{x+y-2}{3}=\dfrac{3x-2y}{6} \end{cases}$	$(3;\ 4)$
129	$\begin{cases} (x+y)^2-(x-1)^2-(y+2)^2-2y(1+x)=3 \\ x(x^2-1)+(y-x)^3-(y-1)(y^2+y+1)=3y-3xy(y-x) \end{cases}$	$\left(\dfrac{5}{2};\ -\dfrac{1}{2}\right)$

sistemi equazioni di primo grado di due equazioni in due incognite a coefficienti irrazionali

130	$\begin{cases} \sqrt{3}x+\sqrt{2}y=3\sqrt{6} \\ \sqrt{2}x-\sqrt{3}y=0 \end{cases}$	$\left(\dfrac{9\sqrt{2}}{5};\ \dfrac{6\sqrt{3}}{5}\right)$
131	$\begin{cases} x+y=\sqrt{5}-\sqrt{2} \\ \sqrt{2}x+\sqrt{5}y=0 \end{cases}$	$(\sqrt{5};\ -\sqrt{2})$
132	$\begin{cases} (2x-y)\sqrt{6}=2(3-\sqrt{6}) \\ 5x+3y=\sqrt{6}(8+\sqrt{6}) \end{cases}$	$(\sqrt{6};\ \sqrt{6}+2)$

Sistemi di equazioni di primo grado

PASSED

133	$\begin{cases} x+y=4\sqrt{2} \\ x(1+2\sqrt{2})=y(2\sqrt{2}-1) \end{cases}$	$(2\sqrt{2}-1;\ 2\sqrt{2}+1)$
134	$\begin{cases} x-5y=1+\sqrt{5}y \\ \sqrt{5}(x-y)=x+1 \end{cases}$	$\left(\frac{\sqrt{5}}{3};\ \frac{2\sqrt{5}-5}{15}\right)$
135	$\begin{cases} 5\sqrt{2}+\sqrt{5}y=x(\sqrt{10}+1) \\ x+y=\sqrt{5}+1 \end{cases}$	$(\sqrt{5};\ 1)$
136	$\begin{cases} \sqrt{6}x+y=2+\sqrt{6} \\ \frac{\sqrt{3}x-y}{\sqrt{6}}=\frac{3-2\sqrt{3}}{3\sqrt{2}} \end{cases}$	$(1;\ 2)$

sistemi equazioni di primo grado di due equazioni in due incognite frazionarie

137	$\begin{cases} \frac{9}{x}+\frac{2}{y}=4 \\ \frac{6}{y}=2+\frac{3}{x} \end{cases}$	$(3;2)$
138	$\begin{cases} \frac{4}{x}+\frac{5}{y}=2 \\ \frac{10}{y}-\frac{4}{x}=1 \end{cases}$	$(4;5)$
139	$\begin{cases} 10-\frac{13}{4x}+\frac{3}{y}=0 \\ \frac{3}{2y}+9=\frac{1}{2}+\frac{5}{2x} \end{cases}$	$\left(\frac{1}{4};\ 1\right)$

140	$\begin{cases} \frac{y+1}{x-3}=2 \\ x-3=\frac{y+1}{2} \end{cases}$	*indeterminato*
141	$\begin{cases} \frac{1}{x}+\frac{1}{y}=\frac{3}{y} \\ x-\frac{3}{2}=y \end{cases}$	$\left(-\frac{3}{2};\ -3\right)$
142	$\begin{cases} \frac{8}{x}=\frac{2}{y} \\ 1-\frac{y+4}{x-2}=0 \end{cases}$	$(8;\ 2)$
143	$\begin{cases} -\frac{x+4}{y+4}=2 \\ \frac{y+5}{x+3}=-1 \end{cases}$	*impossibile*
144	$\begin{cases} \frac{8x+4y+7}{4x-9y+1}=-\frac{13}{2} \\ \frac{7y-2x+6}{3y+4-5x}=\frac{3}{11} \end{cases}$	$(-2;\ -1)$
145	$\begin{cases} 8(2y-3x+7)=7(x+3y-9) \\ \frac{x-1}{1+y}=\frac{1}{2}-\frac{9-3x}{y+1} \end{cases}$	*impossibile*
146	$\begin{cases} \frac{x+1}{6-4y}-\frac{1-2y}{2y-3}=\frac{y-x}{12-8y} \\ y=\frac{4}{3}+x \end{cases}$	$\left(-1;\ \frac{1}{3}\right)$

147	$\begin{cases} \dfrac{7-x^2+3y}{xy-x^2}=1-\dfrac{y-2}{y-x} \\ \dfrac{6+2x}{2x-1}=\dfrac{2(4x+y)}{1-4x+4x^2} \end{cases}$	$\left(-\frac{2}{3};\ -\frac{25}{9}\right)$
148	$\begin{cases} 2(1+y)=5-x+2y \\ \dfrac{1+2x+3y}{2x+3y}=\dfrac{3x+2y+1}{3x+2y} \end{cases}$	$(3;\ 3)$
149	$\begin{cases} 2(x+y)=3 \\ \dfrac{\frac{1}{4}y+\frac{1}{2}}{x}-\dfrac{\frac{2}{5}y-\frac{1}{4}}{x}+\dfrac{9}{10}=0 \end{cases}$	$\left(-\frac{1}{2};\ 2\right)$
150	$\begin{cases} \dfrac{5y-12x}{7-y}-\dfrac{12(x-2y)}{7+y}=\dfrac{5(6x+4y^2-16)-y^2-42}{y^2-49} \\ -\dfrac{x+2}{y-1}+\dfrac{y-1}{x+2}=\dfrac{(y-x)(x+y)-3(x+y)-4}{xy-x+2y-2} \end{cases}$	$(5;\ 4)$
151	$\begin{cases} \dfrac{x-3y}{2x+y}=-\dfrac{5}{4} \\ \dfrac{x+5}{y-1}=6 \end{cases}$	$(1;\ 2)$
152	$\begin{cases} \dfrac{x}{y}+\dfrac{2}{3}=5-\dfrac{26}{3}y \\ \dfrac{x+y}{2}+\dfrac{1}{y+1}=\dfrac{11}{12} \end{cases}$	$\left(0;\ \frac{1}{2}\right)$
153	$\begin{cases} \dfrac{12x-7}{2}+\dfrac{5(y+1)}{x+2}=\dfrac{35}{6} \\ \dfrac{1}{5}x+\dfrac{1}{3}y=\dfrac{8}{15} \end{cases}$	$(1;\ 1);\ \left(-\frac{17}{18};\ \frac{13}{6}\right)$

154	$\begin{cases} \frac{x+y}{2} = -\frac{1}{5} \\ \frac{5x+3y}{2x+7y} = 0 \end{cases}$	$\left(\frac{3}{5};\ -1\right)$
155	$\begin{cases} \frac{x-7}{y} + 7 = \frac{1}{x} \\ \frac{1}{x} + \frac{1}{y+1} = \frac{x}{2} \end{cases}$	$(-1;\ 1)$
156	$\begin{cases} \frac{x+y-3}{x+y} = -\frac{1}{2} \\ \frac{1}{x} + \frac{3}{y} = 4 \end{cases}$	$\left(\frac{1}{2};\ \frac{3}{2}\right);\ (1;\ 1)$
157	$\begin{cases} \frac{x-1}{y+1} + \frac{x}{y} = -\frac{1}{3} \\ \frac{5x+7y}{x-y} + y = -5 \end{cases}$	$(0;\ 2);\ \left(\frac{117}{133};\ -\frac{13}{7}\right)$
158	$\begin{cases} \frac{3x}{y-3} + \frac{x+y}{2x-y} = -\frac{9}{10} \\ -x+2y+7 = 0 \end{cases}$	$(1;\ -3);\ \left(\frac{91}{237};\ -\frac{784}{237}\right)$
159	$\begin{cases} \frac{x+y-5}{x-y} = -\frac{59}{4} \\ \frac{3x-5y}{6x+10y-1} = 0 \end{cases}$	$\left(\frac{2}{3};\ \frac{2}{5}\right)$
160	$\begin{cases} \frac{5x-y}{11x+7y} = x - \frac{1}{7} \\ \frac{3x-5y}{5} = -1 \end{cases}$	$(0;\ 1);\ \left(-\frac{15}{532};\ \frac{523}{532}\right)$

Sistemi di equazioni di primo grado

PASSED

sistemi equazioni di primo grado in più equazioni e più incognite intere

161	$\begin{cases} x+2y-3z=4 \\ -5x+y=-5 \\ 2x+z=1 \end{cases}$	$(1;\ 0;\ -1)$
162	$\begin{cases} x+2y=12 \\ -x-3y+z=-4 \\ -y+z=8 \end{cases}$	*indeterminato* $(12-2y;\ y;\ 8+y)$
163	$\begin{cases} x+2y-2z=-5 \\ 2x-2y+z=-5 \\ x-y+2z=-1 \end{cases}$	$(-3;\ 0;\ 1)$
164	$\begin{cases} 2x-3y+4z=9 \\ 3x-2y+z=8 \\ 11x-9y+7z=30 \end{cases}$	*impossibile*
165	$\begin{cases} 7x+8y+z=-3 \\ 8x+7y+z=6 \\ 6x+6y+z=3 \end{cases}$	$(4;\ -5;\ 9)$
166	$\begin{cases} \frac{x}{2}+y+5z=-3 \\ 5x-7y+z=-15 \\ x+y=2 \end{cases}$	$(0;\ 2;\ -1)$
167	$\begin{cases} 3x-y+z=-1 \\ y+z=0 \\ x+\frac{y}{2}=2 \end{cases}$	$(1;\ 2;\ -2)$
168	$\begin{cases} 2x-3y+z=-3 \\ y+2z=\frac{1}{3} \\ x-6y+3z=-3 \end{cases}$	$\left(-1;\ \frac{1}{3};\ 0\right)$
169	$\begin{cases} x+y+z=-1 \\ x+y=0 \\ y-z=2 \end{cases}$	$(-1;\ 1;\ -1)$

170	$\begin{cases} 3x-5y-z=5 \\ \frac{x}{2}+3y=1 \\ y+z=1 \end{cases}$	$(2;\ 0;\ 1)$
171	$\begin{cases} x+y=3 \\ x-z=4 \\ y+z=-1 \end{cases}$	*indeterminato* $(3-y;\ y;\ -1-y)$
172	$\begin{cases} 2x+7y-4z=8 \\ -x+2y=\frac{3}{2} \\ 4x-y+z=1 \end{cases}$	$\left(\frac{1}{2};\ 1;\ 0\right)$
173	$\begin{cases} x-y+z=1 \\ 3x-4y+7z=10 \\ y-\frac{z}{2}=0 \end{cases}$	$(0;\ 1;\ 2)$
174	$\begin{cases} 2x-3y-z=5 \\ x-y-z=0 \\ x-z=-1 \end{cases}$	$(3;\ -1;\ 4)$
175	$\begin{cases} 3x+y-z=-2 \\ 5x+3z=-1 \\ 7x-2z=1 \end{cases}$	$\left(\frac{1}{31};\ -\frac{77}{31};\ -\frac{12}{31}\right)$
176	$\begin{cases} \frac{x+y+5}{2z}=1 \\ \frac{3x-z-3}{y+1}=2 \\ x+2(y+4)=4(z-1) \end{cases}$	*impossibile*

177	$\begin{cases} x-y+2z=1 \\ \dfrac{2x-y}{z}+1=0 \\ \dfrac{3}{2}(x+z)=y \end{cases}$	*impossibile*
178	$\begin{cases} x+2y+z=2 \\ z+y-2x=0 \\ \dfrac{2}{3}z+2y+\dfrac{1}{2}x=\dfrac{1}{2} \end{cases}$	$(1;\ -1;\ 3)$
179	$\begin{cases} 2x+y-3z=-10 \\ 3x-2y-z=-1 \\ x+4y+2z=16 \end{cases}$	$(2;\ 1;\ 5)$
180	$\begin{cases} x+y+z=1 \\ 2x-y+z=5 \\ x+2y-2z=6 \end{cases}$	$\left(\frac{16}{5};\ -\frac{2}{5};\ -\frac{9}{5}\right)$
181	$\begin{cases} x+y+z=6 \\ 2x+y-z=1 \\ 2x-3y+z=-1 \end{cases}$	$(1;\ 2;\ 3)$
182	$\begin{cases} 2x-y-4z=3 \\ -x+3y+z=-10 \\ 3x+2y-2z=-2 \end{cases}$	$(2;\ -3;\ 1)$
183	$\begin{cases} 4x-3z+t=10 \\ 5y+z-4t=1 \\ 3y+t=17 \\ x+2y+3t=25 \end{cases}$	$(2;\ 4;\ 1;\ 5)$

184	$\begin{cases} x+y+t=0 \\ 12x+6y-6z-2t=1 \\ 3x-3y+6z-3t=1 \\ -6x+12y-6z+6t=11 \end{cases}$	$\left(-\frac{1}{2};\ \frac{3}{2};\ \frac{2}{3};\ -1\right)$
185	$\begin{cases} x-2y-3z-t+2u=3 \\ 3x-y+2z-2t-u=-4 \\ -4x+y-2z+t-u=5 \\ 2x-y+3z-t+u=-1 \\ -2x+3y-z+4t-2u=-5 \end{cases}$	$(-2;\ -1;\ 0;\ -1;\ 1)$