Sistemi di equazioni letterali di primo grado

1	$\begin{cases} x+y=a \\ x-y=b \end{cases}$	$x=\frac{a+b}{2};\ y=\frac{a-b}{2}$
2	$\begin{cases} x+2y=a \\ 3x-y=2a \end{cases}$	$x=\frac{5}{7}a;\ y=\frac{1}{7}a$
3	$\begin{cases} 3y-2x=2a \\ 5x-2y=3a \end{cases}$	$x=\frac{13}{11}a;\ y=\frac{16}{11}a$
4	$\begin{cases} 2x-y=4a \\ x+2y=7a \end{cases}$	$x=3a,\ \ y=2a$
5	$\begin{cases} ax+by=2ab \\ bx+ay=a^2+b^2 \end{cases}$	$x=b,\ \ y=a$
6	$\begin{cases} 2x-y=3a \\ x+y=3(a-b) \end{cases}$	$x=2a-b,\ \ y=a-2b$
7	$\begin{cases} 2x-y=4a+b \\ bx+2ay=0 \end{cases}$	$x=2a,\ \ y=-b$
8	$\begin{cases} x+y=a-b \\ x-y=a+b \end{cases}$	$x=a;\ y=-b$
9	$\begin{cases} x+ay=3a \\ 5x-7ay=3a \end{cases}$	$x=2a; y=\ 1;$
10	$\begin{cases} 2ax-y=5a \\ -3ax+2y=-8a \end{cases}$	$x=2; y=\ -a;$
11	$\begin{cases} 3x+y=3a-b \\ x+4y=a+4b \end{cases}$	$x=a-\frac{8}{11}b;\ y=\frac{13}{11}b$
12	$\begin{cases} 3(x+2a)-3y=3(3a-b) \\ 3x-2(2b-y)=3a-2b \end{cases}$	$x=a;\ y=b$
13	$\begin{cases} 2(b-x)+3(y-a)=-2b \\ 3(a+x)-5(y+b)=b-2a \end{cases}$	$x=2b;\ y=a$
14	$\begin{cases} bx+ay=0 \\ x+y=a-b \end{cases}$	$x=a;\ y=-b$
15	$\begin{cases} ax+by=2 \\ ax-by=0 \end{cases}$	$x=\frac{1}{a};\ y=\frac{1}{b}$
16	$\begin{cases} ax+by=a+b \\ 2ax+3by=2b+3a \end{cases}$	$x=\frac{b}{a};\ y=\frac{a}{b}$

Sistemi di equazioni letterali di primo grado

17	$\begin{cases} ax - 3y = a \\ x - ay = 1 \end{cases}$	$x = 1;\ y = 0$
18	$\begin{cases} ax + 3y = 5 \\ bx + 4y = 3 \end{cases}$	$x = \frac{11}{4a - 3b};\ y = \frac{3a - 5b}{4a - 3b}$
19	$\begin{cases} 8x + ay = 3 \\ ax + 2y = 5 \end{cases}$	$x = \frac{6 - 5a}{16 - a^2};\ y = \frac{40 - 3a}{16 - a^2}$
20	$\begin{cases} a(x + y) + b(x - y) = 1 \\ a(x - y) + b(x + y) = 1 \end{cases}$	$x = \frac{1}{a + b};\ y = 0$
21	$\begin{cases} 2x - y = a \\ x + 3y = 4a \end{cases}$	$x = a;\ y = a$
22	$\begin{cases} x + y - 1 = a + b \\ x + y - b = a + 1 \end{cases}$	$indeterminato;$
23	$\begin{cases} x - 2y = b - a \\ x + 3y = 4a + b \end{cases}$	$x = a + b; y = a;$
24	$\begin{cases} (a + b)x - (a - b)y = 4ab \\ (a - b)x + (a + b)y = 2a^2 - 2b^2 \end{cases}$	$x = a + b;\ y = a - b$
25	$\begin{cases} (a + 1)x - (a + 2)y = a^2 \\ 3x - 2y = 4a \end{cases}$	$x = 2a; y = a;$
26	$\begin{cases} (x + 1)a - 2y = -4a \\ 2ax + y = 5a \end{cases}$	$x = 1; y = 3a;$
27	$\begin{cases} x + y = a + b \\ ax + by = 2ab \end{cases}$	$x = b; y = a;$
28	$\begin{cases} 2ax + 6y = 3a \\ \frac{11}{2}ax - y = y - a \end{cases}$	$x = 0; y = \frac{a}{2};$
29	$\begin{cases} ax - 3y = 2 + 3b \\ 3ax + 2y = 6 - 2b \end{cases}$	$x = \frac{2}{a};\ y = -b$
30	$\begin{cases} (1 - a)x - ay = 1 - 2a \\ ax + (a + 1)y = 2a \end{cases}$	$x = 1 - a;\ y = a$
31	$\begin{cases} x - (a - b)y = 2b \\ (a + b)x - b^2y = a^2 + 2ab \end{cases}$	$x = a + b,\ \ y = 1$
32	$\begin{cases} (a - b)x + (a + b)y = 3a + b \\ (a^2 + b^2)x - b^2y = a^2 - b^2 \end{cases}$	$x = 1,\ \ y = 2$
33	$\begin{cases} 2x - 3y = 3a - 9b \\ \frac{x}{3} - \frac{2}{3}y = a - 2b \end{cases}$	$x = -3a;\ y = -3a + 3b$

Sistemi di equazioni letterali di primo grado

34	$\begin{cases} 2(x-a+1)+3y=6b \\ x+1-\frac{y}{2}=a-b \end{cases}$	$x=a-1; y=2b;$
35	$\begin{cases} 2x+3y=4a-9b \\ \frac{x}{2}-\frac{y}{3}=a+b \end{cases}$	$x=2a; y=-3b;$
36	$\begin{cases} \frac{x}{a}+\frac{y}{b}=1 \\ \frac{x}{b}+\frac{y}{a}=1 \end{cases}$	$x=\frac{ab}{a+b};\ y=-\frac{ab}{a+b}$
37	$\begin{cases} \frac{ax}{a+b}-\frac{by}{a-b}=a-b \\ \frac{ax}{a^2-b^2}-\frac{y}{a+b}=\frac{b(3a-b)}{a^2-b^2} \end{cases}$	$x=a+b,\ y=a-b$
38	$\begin{cases} 5(2x+a)-4(y+b)=9x+2a+b \\ \frac{3}{2}(x+y)-3b=3y \end{cases}$	$x=a+b;\ y=a-b$
39	$\begin{cases} \frac{x+y}{5}+\frac{2a}{3}=\frac{x+2a}{3} \\ \frac{a+y}{3}-\frac{1}{4}a=\frac{2x-3a}{4} \end{cases}$	$x=3a;\ y=2a$
40	$\begin{cases} \frac{x+2y}{b}-\frac{2x+y-b}{a}=\frac{a}{b} \\ \frac{x+3y}{b}-\frac{x+2a}{a}=\frac{a}{b} \end{cases}$	$x=a,\ y=b$
41	$\begin{cases} \frac{x-y}{a-b}-\frac{y}{a}=\frac{b}{a-b} \\ 3x-2y=4a \end{cases}$	$x=2a,\ y=a$
42	$\begin{cases} \frac{x}{a-b}-\frac{y}{a+b}=\frac{4ab}{a^2-b^2} \\ x-y=2b \end{cases}$	$x=a+b,\ y=a-b$
43	$\begin{cases} \frac{x-a}{a-1}+\frac{y}{a^2+a}=-\frac{1}{a(a-1)} \\ \frac{x}{a^2-1}+\frac{y}{(a+1)^2}=\frac{2}{a+1} \end{cases}$	$x=a-1,\ y=a+1$
44	$\begin{cases} \frac{x+y}{2a^2+2ab}+\frac{x-y}{a^2-b^2}=\frac{1}{a-b} \\ \frac{2x}{(a+b)^2}-\frac{y}{a^2+ab}=\frac{1}{a} \end{cases}$	$x=a+b,\ y=a-b$

Sistemi di equazioni letterali di primo grado

45	$\begin{cases} \dfrac{3x-y}{b}+\dfrac{1-2y}{a}=\dfrac{3a^2-b^2}{ab(a+b)} \\ \dfrac{x+2y}{a}-\dfrac{x-1}{b}=\dfrac{2}{a} \end{cases}$	$x=\dfrac{a}{a+b},\ y=\dfrac{b}{a+b}$
46	$\begin{cases} \dfrac{ax}{b(a+b)}-\dfrac{y}{b}=1 \\ \dfrac{2x}{a-b}-\dfrac{y-a+b}{b}=\dfrac{2(a+b)}{a-b} \end{cases}$	$x=a+b,\ y=a-b$
47	$\begin{cases} \dfrac{x+a}{a+b}+\dfrac{y}{a}=\dfrac{3a^2+ab+b^2}{a(a+b)} \\ \dfrac{x-a}{a}+\dfrac{y+b}{b}=3 \end{cases}$	$x=2a,\ y=b$
48	$\begin{cases} (a+b)x-(a-b)y=4ab \\ \dfrac{x}{a+b}+\dfrac{y}{a-b}=2 \end{cases}$	$x=a+b,\ y=a-b$
49	$\begin{cases} \dfrac{x}{a+b}-\dfrac{y}{a-b}=\dfrac{1}{b^2-a^2} \\ (a-b)x+(a+b)y=1 \end{cases}$	$x=0,\ y=\dfrac{1}{a+b}$
50	$\begin{cases} \dfrac{x}{a}+\dfrac{y}{b}=1 \\ \dfrac{x}{b}+\dfrac{y}{a}=1 \end{cases}$	$x=\dfrac{ab}{a+b},\ y=\dfrac{ab}{a+b}$
51	$\begin{cases} a(x+y)-b(x-y)=1 \\ a(x+y)+b(x-y)=\dfrac{a+b}{a-b} \end{cases}$	$x=\dfrac{1}{a-b},\ y=0$
52	$\begin{cases} \dfrac{x-y}{a+2}-\dfrac{x}{2}=-a \\ \dfrac{x-y}{2-a}-\dfrac{y}{a}=2 \end{cases}$	$x=4,\ y=a^2$
53	$\begin{cases} \dfrac{x}{a}-\dfrac{y}{a+b}=\dfrac{a}{a+b} \\ \dfrac{x}{a-b}-\dfrac{y}{b}=\dfrac{b}{a-b} \end{cases}$	$x=a,\ y=b$
54	$\begin{cases} (a-b)x+(a+b)y=a+b \\ (a+b)x+(b-a)y=\dfrac{a(a+b)^2-b(a-b)^2}{a^2-b^2} \end{cases}$	$x=\dfrac{a}{a-b},\ y=\dfrac{b}{a+b}$