

1	$\begin{cases} (a-4)x - 2y = 3 \\ (a-3)x - y = a-2 \end{cases}$	<p>se $a = 2$ impossibile se $a \neq 2$ determinato $\left(\frac{2a-7}{a-2}; \frac{a^2-9a+17}{a-2}\right)$</p>
2	$\begin{cases} x + my = 3 - m \\ 2x + 2y = -5 \end{cases}$	<p>se $m = 1$ impossibile se $m \neq 1$ determinato $\left(\frac{3(m+2)}{2(m-1)}; \frac{2m-11}{2(m-1)}\right)$</p>
3	$\begin{cases} (m-2)x + 3y = 6 \\ (m-1)x + 4y = 8 \end{cases}$	<p>se $m = 5$ indeterminato se $m \neq 5$ determinato $(0; 2)$</p>
4	$\begin{cases} \frac{1}{a}x - \frac{1}{b}y = 0 \\ \frac{2}{a}x + \frac{b}{2}y = 1 \end{cases}$	<p>C. E. $a \neq 0, b \neq 0$ $\left(\frac{2a}{b^2+4}; \frac{2b}{b^2+4}\right)$</p>
5	$\begin{cases} \frac{1}{a}x + \frac{1}{b}y = 0 \\ \frac{1}{a}x + by = 1 \end{cases}$	<p>C. E. $a \neq 0, b \neq 0$ se $b = \pm 1$ impossibile se $b \neq \pm 1$ determinato $\left(\frac{a}{1-b^2}; \frac{b}{b^2-1}\right)$</p>
6	$\begin{cases} bx + ay = 3 \\ b^2x + aby = 2b \end{cases}$	<p>se $a = 0$ impossibile se $b \neq 0$ impossibile se $b = 0$ indeterminato</p>
7	$\begin{cases} \frac{1}{a}x - \frac{1}{b}y = 0 \\ \frac{1}{a}x - \frac{2}{b}y = 1 \end{cases}$	<p>C. E. $a \neq 0, b \neq 0$ $(-a; -b)$</p>
8	$\begin{cases} \frac{1}{a}x - \frac{1}{b}y = 5 \\ \frac{1}{a}x - \frac{2}{b}y = 0 \end{cases}$	<p>C. E. $a \neq 0, b \neq 0$ $(10a; 5b)$</p>
9	$\begin{cases} 3x - 6y = m \\ 2x - 4y = m + 1 \end{cases}$	<p>se $m = -3$ indeterminato se $m \neq -3$ impossibile</p>
10	$\begin{cases} 2x + my = n + 1 \\ 3x + 6y = 2 \end{cases}$	<p>se $m = 4, n = 1/3$ indeterminato se $m = 4, n \neq 1/3$ impossibile se $m \neq 4$ determinato $\left(\frac{6n+6-2m}{12-3m}; \frac{1-3n}{12-3m}\right)$</p>
11	$\begin{cases} ax + y = 3 \\ a^2x + ay = 5b \end{cases}$	<p>se $a \neq 0$, impossibile se $a = 5b/3$ con $b = 0$ indeterminato</p>

12	$\begin{cases} (m-2)x - 3y = 3 \\ (2m+5)x - 2y = -1 \end{cases}$	<p>se $m = -19/4$ impossibile se $m \neq -19/4$ determinato $\left(-\frac{9}{19+4m}; -\frac{13+7m}{19+4m}\right)$</p>
13	$\begin{cases} (a+2)x + 3y = 1 \\ (a-3)x + 2y = 5 \end{cases}$	<p>se $a = 13$ impossibile se $a \neq 13$ determinato $\left(\frac{13}{a-13}; \frac{4a+13}{13-a}\right)$</p>
14	$\begin{cases} x + y = m + 1 \\ x - y = 1 - m \end{cases}$	<p>sistema determinato $\forall m$ $(1; m)$</p>
15	$\begin{cases} x + my = m - 1 \\ x - my = n^2 - 1 \end{cases}$	<p>se $m = 0$ $n = 0$ indeterminato se $m = 0$ $n \neq 0$ impossibile se $m \neq 0$ determinato $\left(\frac{m+n^2-2}{2}; \frac{m-n^2}{2m}\right)$</p>
16	$\begin{cases} (a+1)x + by = 6 \\ (a-1)x - (b-1)y = 5 \end{cases}$	<p>se $a = \frac{1}{2b-1}$ $b \neq \frac{6}{11}$ impossibile se $a = \frac{1}{2b-1}$ $b = \frac{6}{11}$ indeterminato se $a \neq \frac{1}{2b-1}$ determinato $\left(\frac{6-11b}{a-2ab+1}; \frac{11-a}{a-2ab+1}\right)$</p>
17	$\begin{cases} x - (b+2)y = 2 \\ 2x + 4y = 4a \end{cases}$	<p>se $b = -4$ $a = 1$ indeterminato se $b = -4$ $a \neq 1$ impossibile se $b \neq -4$ determinato $\left(\frac{4+2ab+4a}{b+4}; \frac{2a-2}{b+4}\right)$</p>
18	$\begin{cases} (a+3)x - 5by = 6 \\ 2x + 4y = 1 \end{cases}$	<p>se $a = -\frac{5b+6}{2}$ $b = -\frac{24}{5}$ indeterminato se $a = -\frac{5b+6}{2}$ $b \neq -\frac{24}{5}$ impossibile se $a \neq -\frac{5b+6}{2}$ determinato $\left(\frac{24+5b}{4a+12+10b}; \frac{a-9}{4a+12+10b}\right)$</p>
19	$\begin{cases} 4x + y = k \\ (10-k)x + 2y = 10 \end{cases}$	<p>se $k = 2$ impossibile se $k \neq 2$ determinato $\left(\frac{2k-10}{k-2}; \frac{k^2-10k+40}{k-2}\right)$</p>

20	$\begin{cases} (a+1)x + ay = 5 \\ (a^2 - 1)x + a(a-1)y = 3a - 5 \end{cases}$	<p>se $a = 0$ indeterminato se $a \neq 0$ impossibile</p>
21	$\begin{cases} 3ax + (a+3)y = 1 \\ (3a-2)x + ay = 3 \end{cases}$	<p>se $a = 6/7$ impossibile se $a \neq 6/7$ determinato $\left(\frac{2a+9}{7a-6}; \frac{6a+2}{6-7a}\right)$</p>
22	$\begin{cases} x + y = a + b \\ ax + b(y - 2b) = (a - b)^2 \end{cases}$	<p>se $a \neq b$: $x = a - 2b, y = 3b$ se $a = b$: indeterminato</p>
23	$\begin{cases} x + y = a - 1 \\ ax + y = 0 \\ (a-1)x - y = 3 \end{cases}$	<p>se $a = -1$: $x = -1, y = -1$ se $a = 1$: $x = 3, y = -3$ se $a \neq \pm 1$: impossibile</p>
24	$\begin{cases} ax - y = -1 \\ y = a + 1 \\ 2ax - y = a - 1 \end{cases}$	<p>se $a \neq 0$: $x = 1, y = a + 1$ se $a = 0$: $x = x, y = 1$</p>
25	$\begin{cases} 2x + y = a + 2 \\ ax + (a-1)y = 2a \end{cases}$	<p>se $a \neq 2$: $x = a + 1, y = -a$ se $a = 2$: indeterminato</p>
26	$\begin{cases} a(x - y) + 2y = a \\ a(ax + 2x - 2) = (a + 2)(a - 2) \end{cases}$	<p>se $a \neq 0, a \neq \pm 2$: $x = \frac{a^2 + 2a - 4}{a(a + 2)}, y = \frac{4}{4 - a^2}$ se $a = 0, a = \pm 2$: impossibile</p>
27	$\begin{cases} (a-1)x + (a+1)y = -2a \\ (a+1)x + (a-1)y = 2a \end{cases}$	<p>se $a \neq 0$: $x = a, y = -a$ se $a = 0$: indeterminato</p>
28	$\begin{cases} x + y = a \\ x + ay = 0 \\ x - ay = 1 \end{cases}$	impossibile
29	$\begin{cases} x + ay = 1 \\ x - y = 1 \\ ax - y = 0 \end{cases}$	<p>se $a = 0$: $x = 1, y = 0$ se $a = -1$: $x = \frac{1}{2}, y = -\frac{1}{2}$ se $a \neq -1, a \neq 0$: impossibile</p>

30	$\begin{cases} 2x - y = a \\ x + ay = 1 \\ x + (a + 1)y = 3 \end{cases}$	<p>se $a = 0$: $x = 1, y = 2$ se $a \neq 0$: impossibile</p>
31	$\begin{cases} \frac{2x + y}{a} - \frac{2a}{(a^2 - 1)} = 0 \\ y - \frac{2x + y}{a^2} = 2(1 - x) \end{cases}$	<p>se $a \neq 0, a \neq \pm 1$: indeterminato</p>
32	$\begin{cases} (2a + b)x + (a - b)y = 2a \\ a(2x - y) + b(x + y) = b \end{cases}$	<p>se $a = 0, b = 0$: indeterminato se $b \neq 0, a \neq -\frac{b}{2}$: $x = \frac{1}{2}$, $y = \frac{2a - b}{2(a - b)}$ se $b \neq 0, a = -\frac{b}{2}$: indeterminato se $b = 0, a \neq 0$: $x = \frac{1}{2}$, $y = \frac{2a - b}{2(a - b)}$</p>
33	$\begin{cases} \frac{x}{a} + \frac{y}{b} = 1 \\ \frac{x}{a} - \frac{y}{b} = 2 \end{cases}$	<p>se $a \neq 0, b \neq 0$: $x = \frac{3}{2}a, y = -\frac{b}{2}$</p>
34	$\begin{cases} \frac{x}{a} + \frac{y}{b} = \frac{5}{ab} \\ \frac{3x}{a} - \frac{2y}{b} = -\frac{5}{ab} \end{cases}$	<p>se $a \neq 0, b \neq 0$: $x = \frac{1}{b}, y = \frac{4}{a}$</p>
35	$\begin{cases} ax + 2y = 0 \\ bx + 4y = 0 \end{cases}$	<p>se $b = 2a$: indeterminato se $b \neq 2a$: $x = 0, y = 0$</p>
36	$\begin{cases} \frac{x}{2a + b} + \frac{y}{2a - b} = \frac{1}{2a - b} \\ \frac{x - 1}{2a + b} = \frac{y}{2a - b} \end{cases}$	<p>se $b \neq \pm 2a$: $x = \frac{2a}{2a - b}, y = \frac{b}{2a + b}$</p>
37	$\begin{cases} ax + 2y = b \\ 5x + 3y = 4 \end{cases}$	<p>se $a = \frac{10}{3}, b = \frac{8}{3}$: indeterminato se $a = \frac{10}{3}, b \neq \frac{8}{3}$: impossibile se $a \neq \frac{10}{3}$: $x = \frac{8 - 3b}{10 - 3a}, y = \frac{5b - 4a}{10 - 3a}$</p>

38	$\begin{cases} ax + by = 2 \\ 5x - 3y = 4 \end{cases}$	<p>se $a = -\frac{5b}{3}, a = \frac{5}{2}$: indeterminato</p> <p>se $a = -\frac{5b}{3}, a \neq \frac{5}{2}$: impossibile</p> <p>se $a \neq -\frac{5b}{3}$: $x = \frac{16a - 10b}{5(5b + 3a)}$, $y = \frac{10b - 4a}{5b + 3a}$</p>
39	$\begin{cases} x + ay = b \\ 5x - 5y = 4 \end{cases}$	<p>se $a \neq 0, b = 0$: $x = \frac{2}{a}, y = \frac{10-4a}{3a}$</p> <p>se $a < \frac{5}{2}, b \neq 0$: $x = \frac{6+4b}{3a+5b}, y = \frac{10-4a}{3a+5b}$</p> <p>se $a < \frac{5}{2}, b \neq -\frac{3a}{5}$: $x = \frac{6+4b}{3a+5b}$, $y = \frac{10-4a}{3a+5b}$</p> <p>se $a = \frac{5}{2}, b \neq 0$: $x = \frac{4}{5}, y = \frac{10-4a}{5b}$</p> <p>se $a = \frac{5}{2}, b \neq -\frac{3}{2}$: $x = \frac{4}{5}, y = \frac{10-4a}{5b}$</p> <p>se $a = \frac{5}{2}, b = -\frac{3}{2}$: indeterminato</p> <p>se $a > \frac{5}{2}, b \neq 0$: $x = \frac{6+4b}{3a+5b}, y = \frac{10-4a}{3a+5b}$</p> <p>se $a > \frac{5}{2}, b \neq \frac{3}{5}a$: $x = \frac{6+4b}{3a+5b}$, $y = \frac{10-4a}{3a+5b}$</p>
40	$\begin{cases} \frac{x}{a} - \frac{y+a}{a} = -2 \\ x - y = -a \end{cases}$	<p>se $a \neq 0$: indeterminato</p>
41	$\begin{cases} x + y = a \\ bx + ay = b^2 \end{cases}$	<p>se $a \neq b$: $x = a + b, y = -b$; se $a = b$ indeterminato.</p>
42	$\begin{cases} x + y = b \\ ax + by = a^2 \end{cases}$	<p>se $a \neq b$: $x = a + b, y = -a$; se $a = b$ indeterminato</p>
43	$\begin{cases} ax + (a+1)y = 2 \\ (a^2 + a)(x - y) = 1 \end{cases}$	<p>se $a \neq 0 \wedge a \neq -1 \wedge a \neq -\frac{1}{2}$, $x = \frac{1}{a}, y = \frac{1}{a+1}$;</p> <p>se $a = 0 \vee a = -1$ impossibile;</p> <p>se $a = -\frac{1}{2}$ indeterminato</p>

44	$\begin{cases} (a+b)x - by = b^2 \\ ax + 2by = 3ab \end{cases}$	<p>se $a \neq -\frac{2}{3}b \wedge b \neq 0$: $x = b, y = a$;</p> <p>se $a = -\frac{2}{3}b \vee b = 0$ indeterminato</p>
45	$\begin{cases} (a+2)x + y = a \\ 2x - \frac{y}{a-1} + \frac{a}{a+2} = 0 \end{cases}$	<p>$a \neq -2 \wedge a \neq 1$ se $a = 0$ indeterminato se $a \neq 0$ $x = \frac{1}{a+2}, y = a - 1$</p>
46	$\begin{cases} (b+1)x - (b^2-1)y = b^2+1 \\ x - (b-1)y = 1 \end{cases}$	<p>se $b = 0 \vee b = 1$ indeterminato; se $b \neq 0 \wedge b \neq 1$ impossibile</p>
47	$\begin{cases} 2x + ay = a \\ 3x - ay = 5 \end{cases}$	<p>se $a \neq 0$: $x = \frac{a+5}{5}b, y = \frac{3a-10}{5a}$;</p> <p>se $a = 0$ impossibile</p>
48	$\begin{cases} \frac{x}{a-b} + \frac{y}{a+b} = \frac{1}{a^2-b^2} \\ \frac{x}{a} + \frac{y}{b} = \frac{1}{ab} \end{cases}$	<p>$a \neq \pm b \wedge a \neq 0 \wedge b \neq 0$ $x = \frac{b}{a^2+b^2}, y = \frac{a}{a^2+b^2}$;</p>
49	$\begin{cases} \frac{x+y+3a}{4a-4} + \frac{y}{a+1} = \frac{2a}{a^2-1} \\ \frac{x}{a} + \frac{y}{a+1} = \frac{a+2}{a+1} \end{cases}$	<p>$a \neq 0 \wedge a \neq \pm 1$ se $a \neq \frac{3}{4}$: $x = 2a, y = -a$; se $a = \frac{3}{4}$ indeterminato</p>
50	$\begin{cases} a(x-y-2) = x+3y+7 \\ \frac{x}{a+3} + \frac{y+2}{1-a} = \frac{1}{a^2+2a-3} \end{cases}$	<p>$a \neq -3 \wedge a \neq 1$ indeterminato</p>
51	$\begin{cases} \frac{x+2a}{a} + \frac{y+b}{b} = 7 \\ \frac{2x-a}{a} - \frac{3y-b}{b} = -2 \end{cases}$	<p>$a \neq 0 \wedge b \neq 0$ $x = 2a, y = 2b$</p>
52	$\begin{cases} \frac{ax}{b(a+b)} - \frac{y}{b} = 1 \\ \frac{2x}{a-b} - \frac{y-a+b}{b} = \frac{2(a+b)}{a-b} \end{cases}$	<p>$a \neq \pm b \wedge a \neq 0 \wedge b \neq 0$ se $a \neq -\frac{1}{5}$: $x = 1, y = a$; se $a = -\frac{1}{5}$ indeterminato</p>

53	$\begin{cases} ax + (a + 1)y = a \\ x + 3y = 2a \end{cases}$	<p>se $a \neq \frac{1}{2}$: $x = -a$, $y = a$; se $a = \frac{1}{2}$ indeterminato</p>
54	$\begin{cases} ax + 2y = 4 \\ (a - 1)x + y = a \end{cases}$	<p>se $a \neq 2$: $x = 2$, $y = 2 - a$; se $a = 2$ indeterminato</p>
55	$\begin{cases} \frac{a+x}{a} - y - \frac{3}{2a} = -2 + \frac{1}{2a} \\ \frac{x-a}{3} + \frac{y+a}{2} = \frac{13+a}{6} \end{cases}$	<p>$a \neq 0$ se $a \neq -\frac{3}{2}$ $x = 2$, $y = 3$ se $a = -\frac{3}{2}$ indeterminato</p>
56	$\begin{cases} \frac{x+y}{b} + \frac{x-y}{a} = \frac{2(a^2 + b^2)}{ab} \\ \frac{x+y}{x-y} = \frac{a}{b} \end{cases}$	<p>$a \neq 0 \wedge b \neq 0$: $x = a + b$, $y = a - b$</p>
57	$\begin{cases} \frac{x+y}{a} + \frac{x-y}{b} = 4 \\ ax + by = (a+b)^2 - 2b^2 \end{cases}$	<p>$a \neq 0 \wedge b \neq 0$ $x = a + b$, $y = a - b$</p>
58	$\begin{cases} 2bx - ay = \frac{2b+a}{a} \\ 2ax + by = \frac{2a-b}{a} \end{cases}$	<p>$a \neq 0$ $x = \frac{1}{a}$, $y = -\frac{1}{a}$</p>
59	$\begin{cases} \frac{b(x+1)}{a} + \frac{a(y-1)}{b} = a+b \\ a(x-a) - b(y-b) = -(a+b) \end{cases}$	<p>$a \neq 0 \wedge b \neq 0$ se $a \neq -b$: $x = a - 1$, $y = b + 1$; se $a = -b$ indeterminato</p>
60	$\begin{cases} \frac{x-y}{a+b} + \frac{x-y}{a-b} = 2a \\ \frac{3(x-y)}{a+b} + \frac{5(x-y)}{a-b} = 2(4a+b) \end{cases}$	<p>$a \neq \pm b$ indeterminato</p>
61	$\begin{cases} \frac{x-y+a}{a+b} - \frac{y-x+b}{a-b} = \frac{9a^2 - 2ab - b^2}{a^2 - b^2} \\ x - 2a = -y \end{cases}$	<p>$a \neq \pm b$ se $a \neq 0$ $x = 3a$, $y = -a$; se $a = 0$ indeterminato</p>