Risolvi i seguenti sistemi di secondo grado.

494 $\begin{cases} y = 3 \\ x^2 + 3 = 19 \end{cases}$ $[(4; 3), (-4; 3)]$

495 $\begin{cases} x = 2 \\ y^2 - x = 8 \end{cases}$ $[(2; \sqrt{10}), (2; -\sqrt{10})]$

496 $\begin{cases} x^2 + y = -8 \\ 2x + y = -7 \end{cases}$ $[(1; -9)]$

497 $\begin{cases} 2y + 3x = 6 \\ xy - 3y = 4 \end{cases}$ [impossibile]

498 $\begin{cases} 3x - y^2 = 2 \\ x + y = 2 \end{cases}$ $[(1; 1), (6; -4)]$

499 $\begin{cases} y^2 - 2x^2 + xy - 4x - 5y + 6 = 0 \\ 2x + 3y = 4 \end{cases}$ $\left[(-1;2), \left(\frac{1}{2};1\right)\right]$

500 $\begin{cases} x + 2y - 3 = 0 \\ \frac{4}{3} + 2y^2 - 7y + 6 = 2x + \frac{1}{3} - xy + 1 \end{cases}$ [indeterminato]

501 $\begin{cases} 3x + 3y - 2 = 2(x + 2y) - 3 \\ x(y - 2) = y \end{cases}$ $[(1 + \sqrt{2}; 2 + \sqrt{2}), (1 - \sqrt{2}; 2 - \sqrt{2})]$

502 $\begin{cases} x - y = 2 \\ 4(x + 2)^2 + 3\left(y - \frac{16}{3}x^2\right) = 0 \end{cases}$ $\left[(2; 0), \left(-\frac{5}{12}; -\frac{29}{12}\right)\right]$

503 $\begin{cases} 3x - y = 0 \\ 19 - xy = (x + y)^2 \end{cases}$ $[(-1; -3), (1; 3)]$

504 $\begin{cases} x + y = 4 \\ x^2 - xy - 4x = 42 \end{cases}$ $[(7; -3), (-3; 7)]$

505 $\begin{cases} x - y + 2 = 0 \\ x^2 - y^2 + xy + 4 = 0 \end{cases}$ $[(0; 2), (2; 4)]$

506 $\begin{cases} \frac{x}{6} - \frac{y}{3} = \frac{1}{2} \\ y^2 - xy = \frac{5}{4} \end{cases}$ $\left[\left(2; -\frac{1}{2}\right), \left(-2; -\frac{5}{2}\right)\right]$

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507 $\begin{cases} 2(y+1)+y(x+1)=2y-1+x(y-2) \\ 2(x+1)^3+\frac{1}{2}x(1-2x)(1+2x)=\frac{y^2-5-10x}{4} \end{cases}$

508 $\begin{cases} (x-2)^2-4xy+11=0 \\ \frac{x-2}{3}+\frac{y-1}{2}=y \end{cases}$ $\left[(5;1),\left(-\frac{9}{5};-\frac{53}{15}\right)\right]$

509 $\begin{cases} (4-x)(4+x)+y^2-3=4(y+3) \\ 3x=\frac{1}{3}(5+y) \end{cases}$ $\left[(1;4),\left(\frac{23}{40};\frac{7}{40}\right)\right]$

510 $\begin{cases} y(x-2)-2x(y+x)+10=0 \\ (x-3)^2-y=x^2+4(y-4) \end{cases}$ $\left[(0;5),\left(-\frac{13}{4};\frac{89}{10}\right)\right]$

511 $\begin{cases} x^2-3xy=3x \\ \frac{y}{4}-\frac{x}{2}=1 \end{cases}$ $[(-3;-2),(0;4)]$

512 $\begin{cases} 2y(x-6)+3(y-2)=y \\ (y-1)(y+2)+2+x=y(y+3) \end{cases}$ $\left[(6;3),\left(-1;-\frac{1}{2}\right)\right]$

513 $\begin{cases} 5y+3x-6=x+4y-8 \\ (x-y)^2+3xy-x+y=2(y-x) \end{cases}$ $[(-1;0),(-2;2)]$

514 $\begin{cases} x^2+(y+4)^2-100=-16+8x \\ x-y=10 \end{cases}$ $[(12;2),(-2;-12)]$

515 $\begin{cases} 3x-3y=12 \\ 2x(x+4y)-12(1+3y)-x+y=-12y^2-8x \end{cases}$ [impossibile]

516 $\begin{cases} y^2-18=\frac{18-3xy}{2} \\ 3x-6=2y \end{cases}$ $\left[\left(-1;-\frac{9}{2}\right),(4;3)\right]$

517 $\begin{cases} xy=y+2x-2(x-\sqrt{3})-(2+x) \\ y=x-2\sqrt{3} \end{cases}$ $[(\sqrt{3}+1;1-\sqrt{3}),(\sqrt{3}-1;-1-\sqrt{3})]$

518 $\begin{cases} x^2+y^2-4x-4y+6=0 \\ (y-1)^2=y^2+3\left(x+\frac{1}{3}\right)-3y \end{cases}$ $\left[(1;3),\left(\frac{3}{5};\frac{9}{5}\right)\right]$

519 $\begin{cases} (x-3)^2-2y-\sqrt{3}x+\sqrt{6}=-3(2x-3)+y^2-y(y+1) \\ y-\sqrt{2}x=0 \end{cases}$ $[(\sqrt{2};2),(\sqrt{3};\sqrt{6})]$

520 $\begin{cases} 5xy+2\sqrt{3}x=-25x-5(2\sqrt{3}-x\sqrt{3}) \\ y-\sqrt{3}=x \end{cases}$ $\left[(-5;-5+\sqrt{3}),\left(-\frac{2}{5}\sqrt{3};\frac{3\sqrt{3}}{5}\right)\right]$