

- 208**  $(x - \sqrt{3})(\sqrt{3} + x) + (x + \sqrt{5})^2 = 0$   $\left[ \frac{-\sqrt{5} \pm 1}{2} \right]$  **213**  $-7 = \frac{(t-11)(11+t)}{3}$   $[\pm 10]$
- 209**  $3(x-3)(x-5) = -(2x-1)^2$  [impossibile] **214**  $(1, \bar{3} + x)x = (1 + 2^{-2})x$   $\left[ -\frac{1}{12}, 0 \right]$
- 210**  $\left(x + \frac{4}{3}\right)^2 = \left(\frac{x-1}{2}\right)^2 \cdot \frac{4}{9}$   $\left[-\frac{5}{2}, -\frac{3}{4}\right]$  **215**  $7 = 2x(4x-1) - 1 - 10x$   $\left[-\frac{1}{2}, \frac{1}{2}\right]$
- 211** **AL VOLO**  $\left(\frac{x-1}{5}\right)^2 + \left(\frac{x-7}{3}\right)^2 + 1 = 0$  **216**  $x\left[x - 2\left(1 - \frac{x}{2}\right)\right] = 4$   $[-1, 2]$
- 212**  $\frac{x(x-3)}{\sqrt{2}} = -2\sqrt{2}x$   $[0; -1]$  **217**  $x^2 + (x+2)^2 = 8x + (2-x)^2$  [0 doppia]
- 219**  $10(5 + \sqrt{2}) = x(-x+2) - 1 + 10\sqrt{2}x$   $[5\sqrt{2} + 1 \text{ doppia}]$
- 220**  $-4(x-3)(3+x) + 5(x^2+1) = 0$  [impossibile]
- 221**  $(3-4a) \cdot 9 + 2[a(6a-2)+3] = -3^{-1}$   $\left[\frac{5}{3} \text{ doppia}\right]$
- 222**  $x[x + 2(2\sqrt{5} + 1)] = -4\sqrt{5}(\sqrt{5} + 1)$   $[-2 - 2\sqrt{5}; -2\sqrt{5}]$
- 223**  $\frac{x + \sqrt{3}}{3} - \frac{\sqrt{3} - x}{\sqrt{3}} = \frac{x^2 - 1 + \sqrt{3}}{3}$  [impossibile]
- 224**  $\frac{(x-3)(x+2)}{3} + \frac{5}{6} = \frac{3(1-2x)}{2}$   $[-4 \pm 2\sqrt{2}]$
- 225**  $3^{\frac{1}{2}}(2x+1) + (x+1)x + 4^{-1} = -3$   $[-\sqrt{3} - \frac{1}{2} \text{ doppia}]$
- 226**  $(\sqrt{18} + b)^2 - (6+b) \cdot 3 = 4b\left(b - \frac{3}{2}\right)$   $[0; 2\sqrt{2} + 3]$
- 227**  $\left(2x - \frac{1}{3}\right)(x+3) = \left(\frac{x}{2} - 2\right)\left(\frac{x}{2} + 3\right)$  [impossibile]
- 228**  $(x^3 - 2x)(x^3 + 2x) + \frac{3}{5}x - 2 = x^2(x^4 - 6) - 2\left(\frac{x}{5} - 2\right)$   $[-2]$
- 229**  $\frac{x^2 - 3x + 5}{4} - 2 = \left(x + \frac{1}{2}\right)(x-3) + \left(\frac{x}{2} - 1\right)^2 - 1$   $[-1]$
- 230**  $x(x^3 + x - 2) - (x-3)^2 = (x^2 - 1)(x^2 + 1) - (x+1)(x-7)$   $[+]$
- 231**  $(x+2)^3 + (x-3)(1-x)(3+x) = 19x$   $\left[-\frac{1 \pm 2\sqrt{2}}{7}\right]$
- 232**  $(x - 0,5)^3 - \left(\frac{2x+1}{2}\right)^3 = 0$  [impossibile]
- 233**  $x\left[x(1+x) - \frac{1}{4}\right] = \frac{(2x+1)^3}{8}$   $[-1 \pm \sqrt{2}]$
- 234**  $x(x^2 - 4) - x^2 = (x-1)^3 + 2(x-2) - 2x$   $[+]$
- 235**  $x^2(x + 3\sqrt{2}) - (x + \sqrt{3})^3 + 3(3x + \sqrt{3}) = 0$  [0 doppia]

- 359**  $\frac{2}{x} - \frac{x^2}{x^2+4x} = \frac{16+x}{3x+12}$   $\left[\frac{3}{2}\right]$
- 360**  $\frac{x-2}{x+5} + \frac{6x-19}{x^2+3x-10} = \frac{1}{2-x}$  [impossibile]
- 361**  $\frac{1}{x^2+2x} + \frac{1}{x} = \frac{x+1}{2+x} - 2$   $[-1; -3]$
- 362**  $4\left(\frac{x}{x-3} + \frac{1}{x}\right) = -\frac{13}{x^2-3x}$   $\left[-\frac{1}{2} \text{ doppia}\right]$
- 363**  $\frac{1}{x+2} + \frac{1}{x^2-2x+4} = \frac{7-x^2}{x^3+8}$   $\left[1; -\frac{1}{2}\right]$
- 364**  $\frac{3(x-1)}{x-2} + \frac{x(x-5)}{2x-4} = 0$   $[-3]$
- 365**  $\frac{x+3}{x+2} + \frac{1}{x^2+3x+2} = 2$   $[0]$
- 366**  $\frac{2}{x+1} - \frac{3}{x} = \frac{x-1}{2x+2} - \frac{x^2+3}{x^2+x}$   $[1]$
- 367**  $\frac{2-x}{(x+4)^2} + \frac{3}{x+4} = \frac{x-2}{x(x+4)}$   $[-6 \pm 2\sqrt{7}]$
- 368**  $\frac{6x^2-5x+3}{3x-9x^2} = \frac{2-x}{3x-1} - \frac{2x-3}{3x}$   $[4]$
- 369**  $\frac{x-2}{\sqrt{5(5x-\sqrt{5})}} + \frac{2}{5} = \frac{x^2}{5x-\sqrt{5}}$  [impossibile]
- 370**  $\frac{3x+1}{x} + 3 = \frac{25x-4}{x^2+2x}$  [1 dop]
- 371**  $\frac{3}{2x+3} - \frac{x-2}{2x^2-3x} - \frac{6x-4}{4x^2-9} = 0$  [1-]
- 372**  $\frac{x^2+1}{3+x} - 2 \cdot \frac{1-3x}{6+2x} + \frac{x-1}{2} = 0$
- 373**  $\frac{x-2}{x+3} + \frac{9-x}{3x+x^2} = \frac{1}{2}$
- 374**  $1 - \frac{1}{x^2+2x+1} - \frac{2x}{1+x} = 0$  [0 dop]
- 375**  $\frac{2}{x} + \frac{1}{1-(x-1)^2} = 3 \cdot \frac{x}{2-x}$  [1-]
- 376**  $\frac{9a(a+1)}{a^2+4+4a} = 1 + \frac{3a}{2+a}$   $\left[-\frac{4}{5}\right]$
- 377**  $\frac{(3-x)(x+3)+x^2}{x^2-2x} = 0,5 \cdot \left(1 + \frac{1}{x}\right)$  [5-]
- 378**  $\frac{1}{a-2} + \frac{4}{a^2+2a} + 2\left(\frac{1}{a^2-4} - \frac{1}{a}\right) = 0$
- 379**  $\frac{2+x}{x-1}(x-3) - \frac{x^2}{x+1} = \frac{2x+3(x+2)}{1-x}$   $\left[-\frac{2}{3}\right]$
- 380**  $\frac{5x+8}{x^2-8} - \frac{\sqrt{2}}{x+2\sqrt{2}} = \frac{x+3\sqrt{2}}{x-2\sqrt{2}}$   $[0; 5-6]$
- 381**  $\frac{x+2}{(2x)^2-2^4} \cdot x^2 + 0,25 - \left(1 - \frac{9-x}{4-2x}\right) = 0$  [4-]
- 382**  $[(a+1)(1-a) + a^2 + 2] \cdot \frac{1}{5} + \frac{\frac{3}{5}a^2 + 40}{10a+a^2} = \frac{a-4}{a}$  [impossibile]
- 383**  $\frac{3x}{x^2-4x+4} - \frac{1+3x}{x^2-4} = \frac{1}{x^2+2x}$   $[-1-]$
- 384**  $\frac{x+1}{x+\sqrt{2}} + \frac{x^2-10\sqrt{2}}{x^2-2} + \frac{3-x}{x-\sqrt{2}} = 0$   $[-4; 2]$
- 385**  $\frac{4}{x^2-1} + \frac{15+7x}{x^4-5x^2+4} = \frac{2}{4-x^2}$   $\left[-\frac{3}{2}\right]$
- 386**  $\frac{1}{1 + \frac{1}{1 + \frac{1}{x}}} = x$   $\left[\pm \frac{1}{2}\right]$
- 387**  $\frac{b^2+9-7b}{5b+b^2} + \frac{2}{b}(1+2b) = \frac{13}{5+b}$  [impossibile]
- 388**  $\frac{\frac{2}{x}+1}{1+\frac{3}{x}} = 0,2 \left[ \frac{4x^2-(14+x)}{x^2+x-6} + 1 \right]$   $[x \neq 0 \wedge x \neq -3 \wedge x \neq 6]$
- 389**  $\frac{8\sqrt{5}}{5x^2-4} + \frac{2\sqrt{5}-3x}{2-x\sqrt{5}} = \frac{2x}{x\sqrt{5}+2}$  [impossibile]