

Esercizi sulle equazioni irrazionali intere o fratte

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| 1) $\sqrt{4-2x^2} = 2-x$ | $S = \left\{0; \frac{4}{3}\right\}$ |
| 2) $\sqrt{4-x^2} = x-2$ | $S = \{2\}$ |
| 3) $\sqrt{3x^2-2} = x$ | $S = \{1\}$ |
| 4) $\sqrt{x^2-3x} = 3x+1$ | $S = \left\{-\frac{1}{8}\right\}$ |
| 5) $x - \sqrt{4x^2+9} = 7$ | $S = \emptyset$ |
| 6) $\frac{x+1-\sqrt{x}}{3-\sqrt{x}} = 0$ | $S = \emptyset$ |
| 7) $\frac{x+1-2\sqrt{x}}{3-\sqrt{x}} = 0$ | $S = \{1\}$ |
| 8) $\frac{x+2-3\sqrt{x}}{x-\sqrt{x}} = 0$ | $S = \{4\}$ |
| 9) $\frac{\sqrt{3x+1}-x+1}{2-\sqrt{3-x}} = 0$ | $S = \emptyset$ |
| 10) $\frac{2\sqrt{x+1}-x+2}{\sqrt{4-x}-\sqrt{x+3}} = 0$ | $S = \emptyset$ |
| 11) $\frac{3-x-\sqrt{x^2+15}}{x-\sqrt{1-x}} = 0$ | $S = \{-1\}$ |
| 12) $\frac{1}{2-\sqrt{2x-3}} - \frac{3}{\sqrt{x-1}+2} = 0$ | $S = \{2\}$ |
| 13) $\frac{1}{\sqrt{x+1}-1} - \frac{3}{x} = 0$ | $S = \{3\}$ |