

Equazioni trinomie

Esercizi proposti

1. $x^6 - 7x^3 - 8 = 0$ $\left\{ -1; 2; -1 \pm i\sqrt{3}; \frac{1 \pm i\sqrt{3}}{2} \right\}$
2. $2x^8 + 3x^4 - 5 = 0$ $\left\{ \pm 1; \pm i; \frac{\sqrt[4]{10}}{2}(-1 \pm i); \frac{\sqrt[4]{10}}{2}(1 \pm i) \right\}$
3. $8\left(\frac{x-2}{x^2-1}\right)^2 - 7\left(\frac{x-2}{x^2-1}\right) + \frac{3}{4} = 0$ $\{x_1 = 3; x_2 = 5; \dots\}$
4. $(x^3 - 2)^2 - 5(x^3 - 2) - 150 = 0$ $\left\{ -2; 1 \pm i\sqrt{3}; \sqrt[3]{17}; \frac{\sqrt[3]{17}}{2}(-1 \pm i\sqrt{3}) \right\}$
5. $\frac{1}{(x^2 - 3)^4} - \frac{2}{(x^2 - 3)^2} + 1 = 0$ $\{\pm 2; \pm \sqrt{2}\}$ ciascuna radice è doppia
6. $\left(\frac{1}{x^2} + 2\right)^4 - 26\left(\frac{1}{x^2} + 2\right)^2 - 360 = 0$ $\left\{ \pm \frac{1}{2}; \pm \frac{i\sqrt{2}}{4}; \dots \right\}$