

MAGGIORAZIONI

- $|x| \leq |x| + |y|$
- $|x| = \sqrt{x^2} \leq \sqrt{x^2 + y^2} \rightarrow \frac{|x|}{\sqrt{x^2 + y^2}} \leq 1$
- $x^2 \leq x^2 + y^2 \rightarrow \frac{x^2}{x^2 + y^2} \leq 1 \rightarrow \frac{1}{x^2 + y^2} \leq \frac{1}{x^2}$
- $|xy| \leq \frac{1}{2}(x^2 + y^2) \leq x^2 + y^2$
- $\log(t+t) \leq t \quad \forall t > -1$
- $|\sin t| \leq |t|$
- $|a+b| \leq |a| + |b|$
- $0 \leq \sin^2(2x) \leq 1$
- $-1 \leq \sin t \leq 1 \quad -1 \leq \cos t \leq 1$
- $e^x \geq 1+x$