

Cognome

Nome

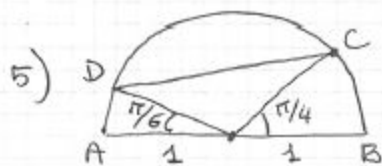
Matr

$$1) \sqrt{9x^2 + 18x - 7} \geq x + 4$$

$$2) \frac{2^{2x} - 5 \cdot 2^x + 6}{e^{-2x} - 4e^{-x} + 3} \geq 0$$

$$3) \frac{|x+1|}{x} < 1 + \frac{2}{x}$$

$$4) \sin 2x - \cos 2x > 0 \quad \text{su } [0, 2\pi]$$



determinare la  
lunghezza di  $\overline{CD}$

$$6) \text{ Scrivere in forma trigonometrica } \left( \frac{1-i}{2+2i} \right)^5$$

$$7) \text{ Scrivere in forma algebrica } \left( \frac{1-i}{1+i} \right)^2 + i \left( \frac{1+i}{1-i} \right)^2$$

$$8) \text{ Se } \arg z = \frac{\pi}{3} \text{ e } |z| = 27$$

calcolare e disegnare  $\sqrt[3]{z}$  e  $\log z$