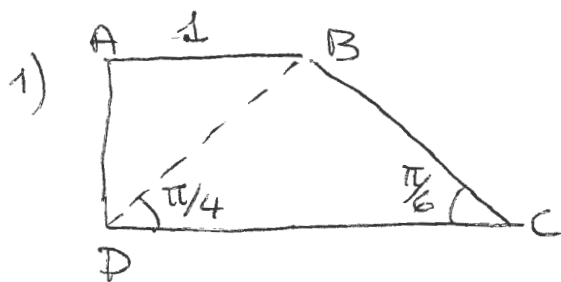


MdC on line 22/1/2016 (1+2)

Cognome Nome \_\_\_\_\_ Matr \_\_\_\_\_



Calcolare perimetro  
ed area

2)  $\log_{1/2} \frac{2^{2x}-3}{2} > 1-x$

3)  $x+1 \leq \sqrt{x^2-3x}$

4) Sia  $z=i-1$  scrivere in forma algebrica  
 $z^2$  e  $1/z$

Almeno 2  
esercizi tra

1, 2, 3, 4

e

5, 6, 7, 8

5) Per quali valori di  $\alpha$  converge

$$\lim_{n \rightarrow +\infty} \left( \frac{3n+1}{3n-2} \right)^{\sin \frac{1}{n^\alpha}} \quad ?$$

6)  $\lim_{n \rightarrow +\infty} \frac{\log \left( 1 - \frac{\sqrt{n}}{n^2+1} \right)}{\sqrt[n]{e^{\frac{1}{n+1}} - 1}}$

7)  $\sum \frac{((n+2)!)^2}{(n+3)^3 (2(n+2))!}$

8)  $\sum_{n=2}^{+\infty} \left( \frac{e-1}{e+1} \right)^n$  dire perché converge e  
calcolare la somma