

Corso di Matematica

& Elementi di Statistica

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sito: <https://ciouil.li/ctf24>

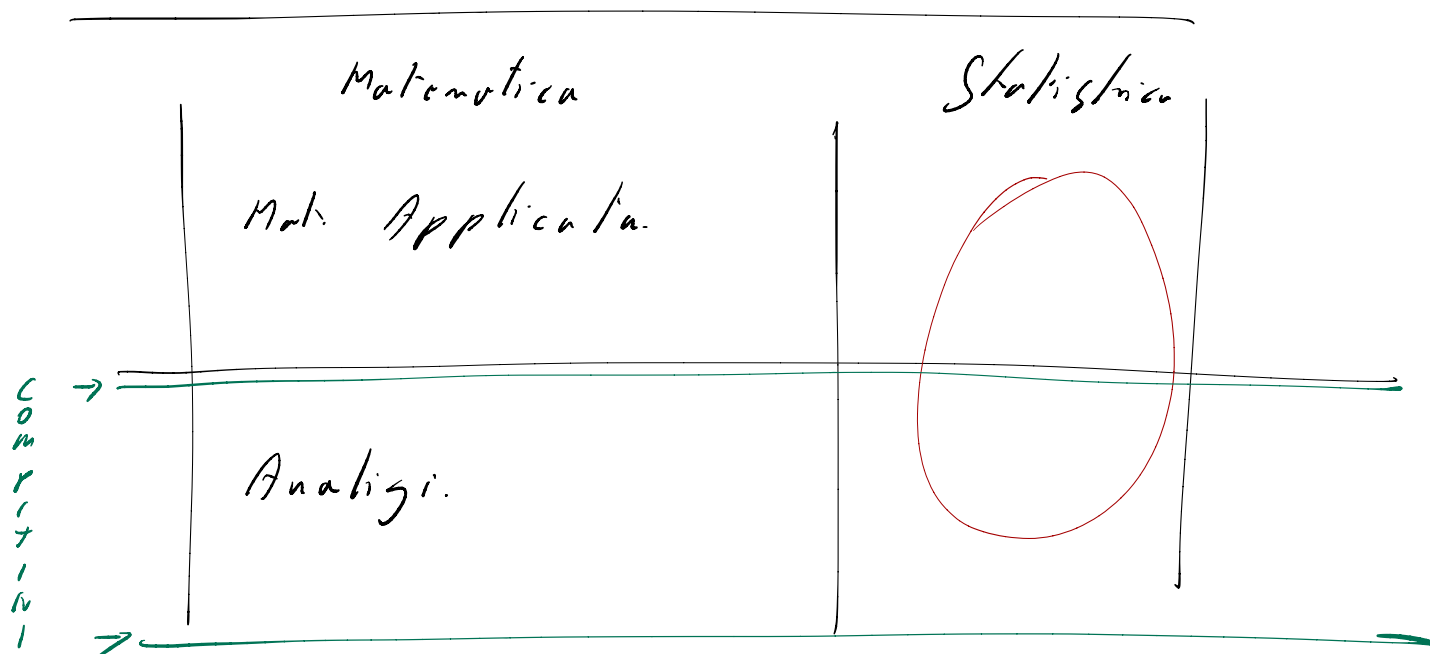
Esame: 1. Test a risposta scelta

soglia 7/10

2. Scritto 6 es. 6 pt/es

3. Orale facoltativa.

↑
con voti ≤ 24 .



Questa cosa è un numero?

- ha senso confrontare con altri numeri
 - ha senso "x metri" o "x grammi"
 - rappresenta una quantità limitata
o ESATTAMENTE DEFINITA
-

27 ✓ ~~XXVII~~ ✓ $27.00 \cdot 10^0$ ✓

$$27 = \underline{XXVII} = 27.00 \cdot 10^0$$

$$\emptyset = \emptyset$$

" $\emptyset$ e $\emptyset$ sono LA STESSA COSA"

$$x^2 - x = 2 \quad \begin{cases} x = 2 \\ x = -1 \end{cases}$$

$$(a+b)^2 = a^2 + b^2 + 2ab$$

$$\sqrt{7} \quad \checkmark$$

$$1 \pm \sqrt{2} \quad \times$$

$$\text{"}$$
$$\{1 + \sqrt{2}, 1 - \sqrt{2}\}$$

$$050 \ 2312175 \quad \times$$

$$7 + 5 = 12 \quad \times$$

$$2.54 \text{ cm} = 1 \text{ in} \quad \times$$

$$A = 7 \cdot 5 = 35 \text{ m}^2 \quad \text{" } 3500 \text{ cm}^2$$

$$A = 7 \text{ m} \cdot 5 \text{ cm} = 0.35 \text{ m}^2$$

$$\infty \quad \times$$

$$\text{"x talr cho } x + 2 = -x" \quad \checkmark$$

$$\text{"x talr cho } x^2 = 2" \quad \times$$

$$\text{"x talr cho } \frac{1}{x+2} = \frac{1}{x-2}" \quad \times$$

$$x + 2 = x - 2$$

$$2 = -2 \quad \text{False}$$

$$\frac{1}{\underbrace{3^2 + 4^2 - 5^2}_0} \quad \times$$

$$\sqrt{\frac{\pi}{7^6 - 1}} \quad \checkmark$$

$$\frac{1}{x-1} + \frac{1}{x+1} < \frac{2}{x}$$

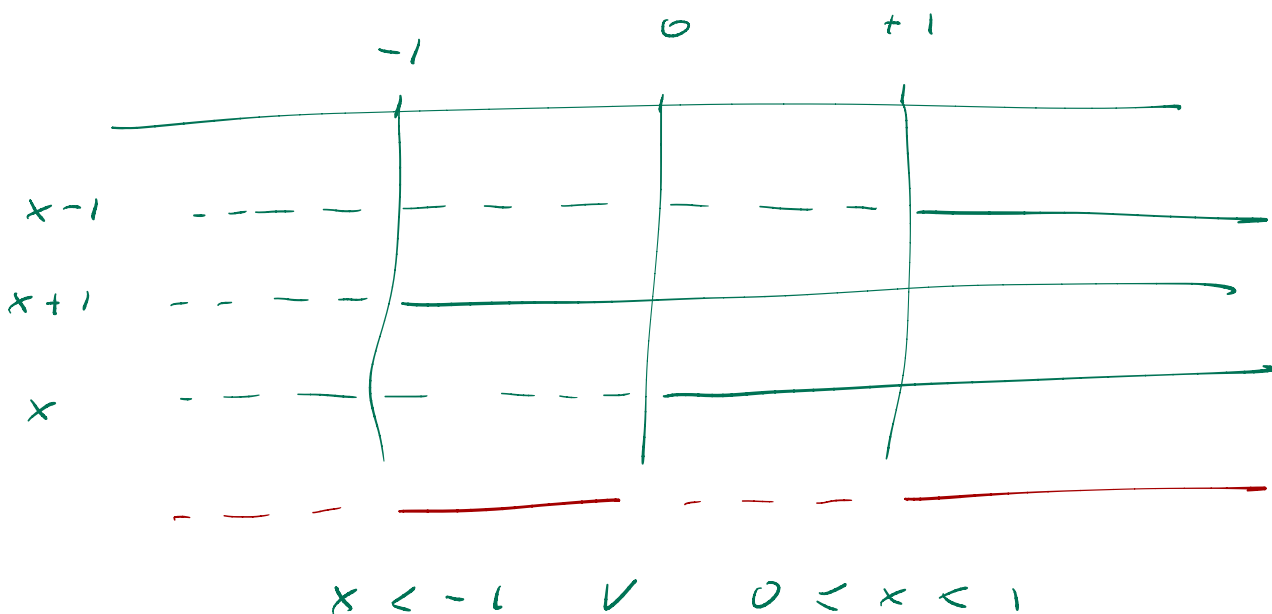
$$\frac{1}{x-1} + \frac{1}{x+1} - \frac{2}{x} < 0$$

$$\overbrace{x^2 + x + x^2 - x - 2(x^2 - 1)}^2$$

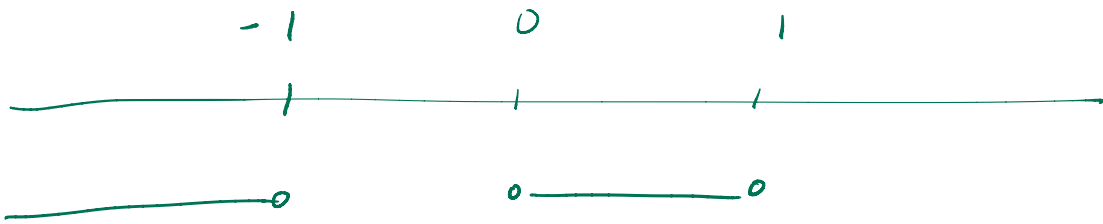
$$\frac{(x+1)x + (x-1)x - 2(x-1)(x+1)}{(x-1)(x+1)x} < 0$$

$$\frac{2}{(x-1)(x+1)x} < 0$$

$$(x-1)(x+1)x < 0$$



$$(x-1)(x+1)x \stackrel{=0}{< 0}$$



$$x < -1 \quad \vee \quad 0 < x < 1$$

$$\frac{1}{x+41} + \frac{1}{x+43} > \frac{2}{x+42}$$

y

$$\frac{1}{x-1} + \frac{1}{x+1} < \frac{2}{x}$$

$$x < -1 \quad \vee \quad 0 < x < 1$$

$$\frac{1}{y-1} + \frac{1}{y+1} > \frac{2}{y} \quad -1 < y < 0 \quad \vee \quad 1 < y$$

$$-1 < x+42 < 0 \quad \vee \quad 1 < x+42$$

$$-43 < x < -42 \quad \vee \quad -41 < x$$