



VERIFICA DI MATEMATICA – recupero assenti

CLASSI 3^A – 12 Ottobre 2007

COGNOME _____ NOME _____

1. $ctg x - \sqrt{3} > 0$

$$k\pi < x < \frac{\pi}{6} + k\pi$$

2. $sen\left(x + \frac{\pi}{6}\right) \leq \frac{\sqrt{3}}{2}$

$$-\frac{3}{2}\pi + 2k\pi \leq x \leq \frac{\pi}{6} + 2k\pi$$

3. $2\sqrt{3} sen^2 x + 3 sen x \geq 0$

$$2k\pi \leq x \leq \pi + 2k\pi \quad \vee \quad \frac{4}{3}\pi + 2k\pi \leq x \leq \frac{5}{3}\pi + 2k\pi$$

4. $ctg^2 x + \sqrt{3} ctg x < 0$

$$\frac{\pi}{2} + k\pi < x < \frac{5}{6}\pi + k\pi$$

5. $(2 + \sqrt{3}) \cos x + sen x + 1 < 0$

$$\frac{2}{3}\pi + 2k\pi \leq x \leq \frac{3}{2}\pi + 2k\pi$$

6. $3 \cos\left(x - \frac{\pi}{3}\right) - \sqrt{3} sen\left(x - \frac{\pi}{3}\right) + \sqrt{3} \leq 0$

$$\frac{5}{6}\pi + 2k\pi \leq x \leq \frac{3}{2}\pi + 2k\pi$$

7. $\cos x + \sqrt{3} sen x > 0$

$$-\frac{\pi}{6} + 2k\pi < x < \frac{5}{6}\pi + 2k\pi$$

8. $\sqrt{3} sen^2 x - 4 sen x \cos x + \sqrt{3} cos^2 x < 0$

$$\frac{\pi}{6} + k\pi < x < \frac{\pi}{3} + k\pi$$

9. $\frac{9x^2 + 6x + 1}{x + 3} > 0$

$$x > -3 \wedge x \neq -\frac{1}{3}$$

10. $x^2 - x + 3 > 0$

$$\forall x \in R$$

11.
$$\begin{cases} x^2 - 4x - 12 \geq 0 \\ 4x^2 - 25 < 0 \\ x^2 + 9 > 0 \end{cases}$$

$$-\frac{5}{2} < x \leq -2$$

1	2	3	4	5	6	7	8	9	10	11
1,5	2	2,5	2	3,5	4	2	3	2	1	4,5

Totale punti 28. Sufficienza con punti 15.

BUON LAVORO!!!