



VERIFICA DI MATEMATICA - recupero assenti

CLASSI 3^A - 20 Ottobre 2007

COGNOME _____ NOME _____

1. $\frac{1}{2} < \sin x < \frac{\sqrt{2}}{2}$ $\frac{\pi}{6} + 2k\pi < x < \frac{\pi}{4} + 2k\pi \vee \frac{3}{4}\pi + 2k\pi < x < \frac{5}{6}\pi + 2k\pi$

2. $\operatorname{tg}\left(3x + \frac{\pi}{6}\right) \leq \frac{\sqrt{3}}{3}$ $-\frac{2}{9}\pi + k\frac{\pi}{3} \leq x \leq k\frac{\pi}{3}$

3. $\cos^2 x \leq \cos x$ $-\frac{\pi}{2} + 2k\pi \leq x \leq \frac{\pi}{2} + 2k\pi$

4. $2\sin x \cos x - \sin x > 0$ $\pi + 2k\pi < x < \frac{5}{3}\pi + 2k\pi$

5. $(1 - \sqrt{2})\cos x - \sin x > 1$ $\frac{5}{4}\pi + 2k\pi < x < \frac{3}{2}\pi + 2k\pi$

6. $\sqrt{3}\sin\left(x - \frac{\pi}{3}\right) + \cos\left(x - \frac{\pi}{3}\right) < 1$ $\frac{2}{3}\pi + 2k\pi < x < 2\pi + 2k\pi$

7. $\sin x - \sqrt{3}\cos x \leq 0$ $-\frac{2}{3}\pi + 2k\pi \leq x \leq \frac{\pi}{3} + 2k\pi$

8. $4\sin^2 x - 2\sqrt{3}\sin x \cos x - 2\cos^2 x < 1$ $-\frac{\pi}{6} + k\pi < x < \frac{\pi}{3} + k\pi$

9. $\frac{25x^2 + 10x + 1}{x + 1} > 0$ $x > -1 \wedge x \neq -\frac{1}{6}$

10. $x^2 - 3x + 3 \geq 0$ $\forall x \in \mathbb{R}$

11. $\begin{cases} x^2 - 5x - 14 \geq 0 \\ 9x^2 - 25 < 0 \\ x^2 + 13 \geq 0 \end{cases}$ *impossibile*

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

Totale punti 29. Sufficienza con punti 15,6.

BUON LAVORO!!!