

I° - 17/5/2013

1) $\sqrt{\frac{x+4}{6-x}} < x+4$

2) $\log_{1/3}(x^2+2x) \geq -1$

3) $2^{x-1} \cdot 4^{x+1} > 8 \cdot 16^{1-2x}$

4) $2\sin^2 x + 3\sin x + 1 < 0$ studiare su $[0, 2\pi]$

5) $|x^2-1| < |2x+1|$

6) scrivere in forma algebrica

a) $\frac{3-i}{1-3i}$

b) $(1+\sqrt{2}i)^2 - (1-\sqrt{2}i)^2$

7) scrivere in forma trigonometrica

$$\frac{(\sqrt{3}-i)^4}{(1+i)^3}$$