

Nome e Cognome: _____

Data : _____

1) $\sqrt{3}\operatorname{ctg}^2 2x + \operatorname{ctg} 2x = 0$

2) $\operatorname{sen}^3 x - \operatorname{sen} x \cos^2 x = 0$

3) $\cos 3x - \cos 5x = \operatorname{sen} 6x + \operatorname{sen} 2x$

4) $\cos^2 \left(\frac{11}{6}\pi - x \right) + \frac{\sqrt{3}}{4} \operatorname{sen} 2x = \cos^2 x$

5) $\operatorname{tg} \left(\frac{\pi}{3} + x \right) = \operatorname{tg} \left(\frac{\pi}{3} - x \right) + 4$

6) $\operatorname{sen} \left(3x - \frac{\pi}{3} \right) = -\operatorname{sen} \left(\frac{\pi}{4} + x \right)$

7) $\operatorname{sen} x + \cos x = \frac{1}{2}(\sqrt{3} + 1)$

8) $\operatorname{sen}^2 x + 7\cos^2 x + 2\sqrt{3}\operatorname{sen} x \cdot \cos x = 4$

9) $2\sqrt{2}\operatorname{sen} x \cdot \cos x = 1$

10) $\operatorname{tg} \left(\frac{\pi}{4} - \frac{x}{2} \right) + \operatorname{sen} x = 1$

11) $\operatorname{sen} 2x - \cos x < 0$

12) $2\cos^2 x - 3\cos x + 1 \leq 0$