II liceo Classico PIO XI

Esercitazione di Matematica

Risolvi le seguenti equazioni goniometriche:

a) $2\sin x + 3 = 2(1 + 2\sin x)$

b) $3 - 2\cos x = 2(1 - 2\cos x)$

c) $2 - \sqrt{2}\sin x = 2\sqrt{2}\sin x + 5$

d) $2(\tan x - 1) + 3 = \tan x + 1 + \sqrt{3}$

e) $2(\tan x + 1) + 3(1 - \tan x) = -2(\tan x - 1) + 4$

a) $\sin^2 x - \sqrt{3}\sin x \cos x = 0$

b) $\cos^2 x - \sqrt{3}\sin x \cos x = 0$

c) $2\sin x \cos x + \cos^2 + \sin^2 x = 0$

d) $\sin^2 x - 3\cos^2 x = 0$

e) $2\sin^2 + 3\sin x \cos x = 2 + \cos^2 x$

f) $\sin^2 x - \cos^2 + 2\sin x \cos x = 1$

g) $7\sin^2 x - 5\sin x \cos x = 2 - 2\cos^2 x$

a) $2\cos^2 x - 1 = 0$

b) $2\sin^2 x - \sin x = 0$

c) $\sqrt{3}\tan x - \tan^2 x = 0$

d) $4\sin^2 x - 8\sin x - 5 = 0$