Solving Trig Equations Using Identities

1) $2\sec^2 x + \tan^2 x - 3 = 0 \quad [0, 2\pi]$

$* \sec^2 x = 1 + \tan^2 x *$

$2(1 + \tan^2 x) + \tan^2 x - 3 = 0$

$2 + 2\tan^2 x + \tan^2 x - 3 = 0$

$3\tan^2 x - 1 = 0$

$\tan^2 x = \frac{1}{3}$

$\tan x = \pm\sqrt{\frac{1}{3}} = \pm\frac{1}{\sqrt{3}}\frac{\sqrt{3}}{\sqrt{3}}$

$\tan x = \pm\frac{\sqrt{3}}{3} \quad RA = \frac{\pi}{6}$

2) $2\sin^2 x = 2 + \cos x \quad [0, 2\pi]$

7 1 Solving Trigonometric Equations With Identities

Carol Lee Johnston,Jeanne Lazaris

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