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Solving Trig Equations II (6.4)

Men & Women

senses
pain
confidence & worry
heart attacks
giving directions
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Solving Trig Equations II (6.4)

ex1: Solve \cos 2x + 1 - \cos x = 0  [0,2\pi)

2\cos^2 x - 1 + 1\cos x = 0

2\cos^2 x - \cos x = 0

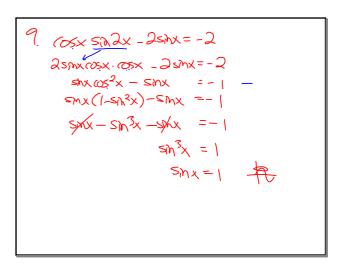
\cos x = 0
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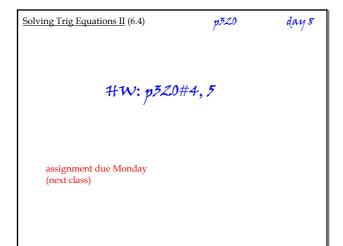
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Solving Trig Equations II (6.4)
ex2: Solve \quad {}^{2} \sin^{2} x = \frac{1}{2} \tan x \cos x \qquad [0, 2\pi)
2 \sin^{2} x = \frac{5Mx}{2} \cos x \qquad (5x \neq 0)
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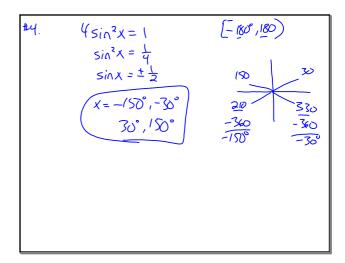
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Solving Trig Equations II (6.4)

ex3: Solve 2\sin x = 7 - 3\csc x x \in \mathbb{R}

2\sin x + \frac{3}{\sin x} = 7
2\sin^2 x + \frac{3}{\sin^2 x} = 7\sin x
2\sin^2 x - 7\sin x + \frac{3}{\sin^2 x} = 0
2\sin^2 x - 7\sin x + \frac{3}{\sin^2 x} = 0
2\sin^2 x - 7\sin x + \frac{3}{\sin^2 x} = 0
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2\sin^2 x + \frac{3}{\sin^2 x} = 0
2\cos^2 x - 3\cos^2 x + \frac{3}{\sin^2 x} = 0
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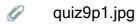






5.
$$2 \tan^2 x + 3 \tan x - 2 = 0$$
 $\frac{\pi^{-4}}{3} \left[0, 2\pi \right]$
 $2 \tan^2 x + 4 \tan x - 1 \tan x - 2 = 0$ $\frac{\pi^{-4}}{3} \left[0, 2\pi \right]$
 $2 \tan^2 x + 4 \tan^2 x - 2 = 0$ $\frac{\pi^{-4}}{3} \left[0, 2\pi \right]$
 $2 \tan^2 x + 4 \tan^2 x - 2 = 0$
 $2 \tan^2 x + 2 = 0$
 $2 \tan^2 x + 2 = 0$
 $4 \tan^2 x + 2 = 0$
 $4 \tan^2 x + 2 = 0$
 $4 \tan^2 x + 3 \tan^2 x - 2 = 0$
 $2 \tan^2 x + 2 = 0$
 $4 \tan^2$

Attachments



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