Trig Equations (4.4)

Quiz 4

p211 Trig Equations (4.4) day 7 HW: p202#11cd, 15 11. Determine the approxim of all angles that satisfy 15. a) Determine the positive value of sin (cos⁻¹ 0.6). Use your knowledge Give answers to two dec diagrams to show the po of the unit circle to explain why the answer is a rational number. a) $\cos \theta = 0.42$ in the do b) Without calculating, what is the $-\pi \le \theta \le \pi$ positive value of $\cos (\sin^{-1} 0.6)$? Explain. **b)** $\tan \theta = -4.87$ in the $-\frac{\pi}{2} \le \theta \le \pi$ c) $\csc \theta = 4.87$ in the do $-360^{\circ} \le \theta < 180^{\circ}$ d) $\cot \theta = 1.5$ in the don $-180^{\circ} \le \theta < 360^{\circ}$

Trig Equations (4.4)

ex1: Solve $3\sec x - 6 = 0$ on $[0,360^{\circ})$ $3\sec x = 6$ $\sec x = 2$ $\cos x = \frac{1}{2}$ x = 6 x = 6

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ex2: Solve $1 + \tan x = 4 \tan x$ on $[0, 2\pi)$ $1 = 3 + 6\pi \times 1$ $1 = 3 + 6\pi \times 1$

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ex3: Solve $\cos^2\theta = \cos\theta$ on $[0, 2\pi)$ $\cos^2\theta - (\cos\theta) = 0$ $\cos^2\theta - (\cos\theta) = 0$

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1+W: p211#5bc, 7c, 11



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