

Name : _____

T3S1

Solving Trigonometric Equations

Solve each trigonometric equation.

1) $7 \tan^2 \theta - 9 = 3 \sec^2 \theta$

2) $\cos^2 \theta = \frac{1}{4 \sin^2 \theta}$

3) $5 \cos^2 \theta + 7 \sin^2 \theta$

$\sin^2 \theta = -\cos^2 \theta$

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$n\pi \pm \frac{\pi}{3}; n \in \mathbb{Z}$

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$n\pi \pm \frac{\pi}{2}, m\pi \pm \frac{\pi}{4}; m, n \in \mathbb{Z}$