

Unit 6: Standard Position Trigonometry**6.5 Solving Trigonometric Equations II**

Solving specific angles:

ex. Solve to the nearest degree, $0 \leq \theta < 360^\circ$, if θ is an angle in standard position with a terminal arm point:

a) $(-2, 5)$

b) $(-4, -7)$

Trig equations involving squares:

ex. Solve to the nearest degree, $0 \leq \theta < 360^\circ$:

a) $\tan^2 \theta = \frac{1}{9}$

b) $5\sin^2 \theta - 1 = 3$

Solving equations with special or quadrantal angles:

ex. Solve without a calculator, $0 \leq \theta < 360^\circ$:

a) $\sin \theta = \frac{1}{2}$

b) $\cos \theta = -\frac{1}{\sqrt{2}}$

c) $\cos \theta = 0$

d) $\sin \theta = -1$



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