

Chapter 6 Pretest

1. Find *all* radian solutions for x .

a) $\sec x = -2$ b) $\cot x = \sqrt{3}$

2. Find *all* degree solutions for θ .

a) $\csc \theta = \sqrt{2}$ b) $\tan \theta = -1$

3. Solve the equation for $0 \leq x < 2\pi$.

a) $2 \cos^2 x - 1 = 0$ b) $\csc^2 x + 3 \csc x + 2 = 0$

4. Solve the equation for $0^\circ \leq \theta < 360^\circ$.

a) $\sin(2\theta) = -\sin\theta$ b) $2 \cos^2 \theta + 5 \sin\theta + 1 = 0$

Inverse Trig Functions:

5. Evaluate each.

a) $\tan^{-1}(-\sqrt{3})$	b) $\cos^{-1}\left(-\frac{\sqrt{3}}{2}\right)$	c) $\tan^{-1}(-1)$
d) $\sin^{-1}\left(\frac{1}{2}\right)$	e) $\arccos\left(\frac{1}{2}\right)$	f) $\arccos\left(-\frac{\sqrt{2}}{2}\right)$
g) $\arctan\left(\frac{\sqrt{3}}{3}\right)$	h) $\sin^{-1}(-1)$	i) $\sin^{-1}(0)$
j) $\cos^{-1}(0)$	k) $\cos^{-1}(-1)$	l) $\arctan(0)$