

## Review T15: Solving Trig Equations; Law of Sines/Cosines Date \_\_\_\_\_

Solve each equation for  $0 \leq \theta < 2\pi$ . You will need your unit circle and your pink sheet with the identities (unless you have them memorized).

1)  $-4\sin \theta = -2\sqrt{3}$

2)  $4\cos \theta = -2\sqrt{2}$

3)  $-5 - \csc \theta = -3$

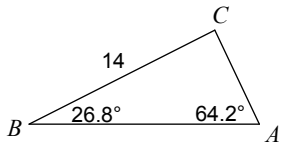
4)  $2 = 2 - \tan \theta$

5)  $\csc^2 x = 2$

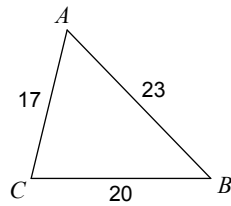
6)  $\tan^2 x = \tan x$

**State whether to use Law of Sines or Law of Cosines to solve the triangles. Solve each triangle. Round all answers to the nearest tenth. PLEASE show your work and answers neatly.**

7)



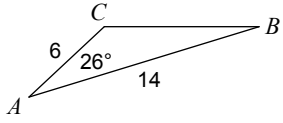
8)



9)  $m\angle A = 92.3^\circ$ ,  $m\angle B = 42.7^\circ$ ,  $c = 19.8$

10)  $c = 29$ ,  $m\angle B = 123^\circ$ ,  $a = 21$

11)



12)

