

Name _____ Date _____ Period _____

PCPAP: Review 4.1-4.4

Calculator permitted.

- If $\sec \theta = -4$ and $\csc \theta < 0$
 - Based on the secant ratio, in which two quadrants could θ terminate?
 - Based on the sign of the cosecant ratio, in which quadrant does θ actually live?
 - Draw the reference triangle and the angle in the correct quadrant.
 - Find the simplified, exact value length of the missing side of the reference triangle.
 - List the simplified, exact value of all 6 trig functions of θ .
 - If $0 < \theta < 2\pi$, find θ_{ref}
 - Find θ
- If the terminal side of ϕ passes through the point $(3, -6)$,
 - Draw the reference triangle and the angle.
 - Find the simplified, exact value of the missing side of the reference triangle.
 - Find the simplified, exact value of the 6 trig functions of ϕ
 - If $0^\circ < \phi < 360^\circ$, find ϕ_{ref}
 - Find ϕ
- For the following angles, ϕ , find their coterminal angles, θ , that terminate within one positive rotation, that is $0 < \theta < 2\pi$ or $0^\circ < \theta < 360^\circ$.
 - $\phi = \frac{279987\pi}{6}$
 - $\phi = -2789446^\circ$
 - $\phi = -\frac{2222222299\pi}{5}$
- Evaluate the following on the calculator. Write down the commands you type into your calculator
 - $\sec 4.35$
 - $\csc \frac{5\pi}{3}$
 - $\cot 1$
 - $\sec(-0.31)$
- Solve each of the following for θ , where $\theta \in [0, 2\pi)$
 - $\cot \theta = -6.2$
 - $\csc \theta = 5$
 - $\cos \theta = -0.37$
- Find all solutions for each of the following (in radians).
 - $\sin \theta = -0.65$
 - $\sec \theta = -5.55$
 - $\cot \theta = 3$
- Find the **exact** value(s) of the following using the Unit Circle:
 - $\sin \frac{7\pi}{4}$
 - $\sec \frac{5\pi}{6}$
 - $\sec^{-1}\left(-\frac{2\sqrt{3}}{3}\right)$
 - $\tan^{-1} \frac{\sqrt{3}}{3}$
- Convert the following:
 - 230° to radians
 - $\frac{6\pi}{7}$ to decimal degrees
 - $227^\circ 39' 17''$ to radians

Know all this plus the sinusoidal info from 4.4