Math Analysis CP- Unit 1: Circular and Right Triangle Trig

Can You:

- Use basic geometry to solve trig problems
- Convert degrees to radians and radians to degrees
- Convert decimal degree measures to degrees, minutes, and seconds
- Convert degrees, minutes, seconds form to decimal form
- Draw an angle in standard position and find the reference angle in degrees.
- Draw an angle in standard position and find the reference angle in radians.
- Identify positive and negative co-terminal angles of an angle in standard position in both radians and degrees.
- Find the exact values of the 6 trig functions for angles in degrees and radians
- Use the unit circle to find exact values and angles.
- Find the point (x, y) on the unit circle that corresponds to given θ.
- Evaluate a trig expression by making substitutions with the exact fractional values
- Find missing sides of a special right triangle
- Given θ in standard position with P(x, y) a point on the terminal side of θ. Find the exact values of the 6 trig functions of θ
- Solve for all angles θ on a Unit Circle with $0<\theta<2\pi$. (WS 4.7)
- Use inverse trig functions to solve for θ. (WS 4.7)
- Evaluate a trig expression involving an inverse trig function. (WS 4.7)
- Find one trig ratio given another trig ratio.
- Find the arc length and area of a sector given a central angle and the radius.
- Explain why $\sin^2\theta + \cos^2\theta = 1$