

Analysis CP- Can You?
Unit 1: Circular and Right Triangle Trigonometry
Sections: 4-1, 4-2, 4-3, 4-4, 4-7

I recommend that you find or create a study question for each item on the Can You and answer each of your questions.

CAN YOU (without a calculator):

- Convert...
 - Degrees \Leftrightarrow Number of rotations?
 - Decimal degree measures \Leftrightarrow degrees and minutes?
 - Degrees \Leftrightarrow Radians?
- Given an angle measured in degrees or radian:
 - Sketch the angle in standard position and determine the quadrant of the terminal side?
 - Identify a positive, negative and all co-terminal angles?
 - Find the measure of and sketch the reference angle?
- Find the exact fractional values of all six trig functions:
 - Given two side measures of a right triangle?
 - Using the unit circle (for families of $30^\circ (\pi/6)$, $45^\circ (\pi/4)$, $60^\circ (\pi/3)$ and $90^\circ (\pi/2)$)?
 - Given a point or a line on the terminal side of the angle in standard position?
 - Given a trig function value and the quadrant of the terminal side of the angle in standard position?
- Evaluate a trig expression by making substitutions with exact fractional values from the unit circle?
- Evaluate inverse trig functions to find appropriate angle measures
 - Using the calculator (in both degrees and radians)?
 - Using your knowledge of the unit circle?
- Given the measure of a central angle (in degrees or radian):
 - Find the length of the subtended arc?
 - Find the area of the sector?
- For all values of θ , compute the value of $\sin^2 \theta + \cos^2 \theta$. Know that $\sin^2 \theta = (\sin \theta)^2$

HAVE YOU

- Reviewed your notes?
- Completed all homework problems?
- Reviewed with a friend, study group, or asked the teacher for help?