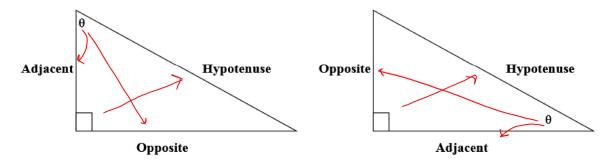
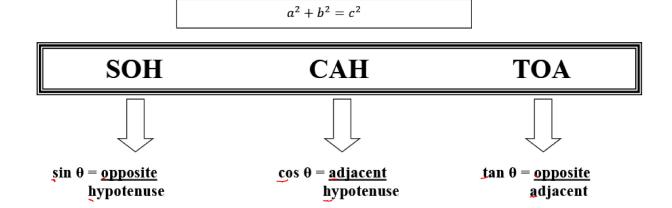
Pre-Calculus 11 Angles in Standard Position

Review Right Angle Trigonometry

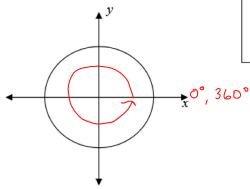
Label the sides in relation to the angle:



Recall: Pythagorean Theorem

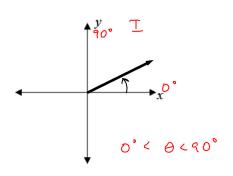


Angles in Standard Position

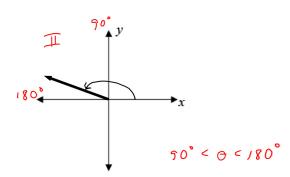


An angle is in standard position, if the angle θ , between 0° and 360° , is measured counterclockwise from the positive *x*-axis.

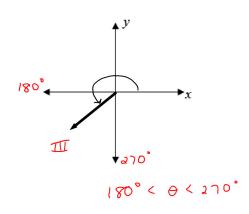
Quadrant I



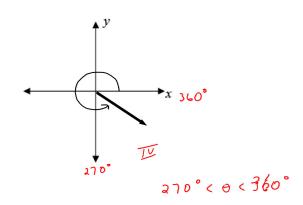
Quadrant II



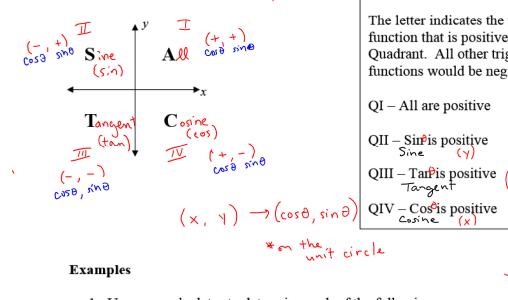
Quadrant III



Quadrant IV





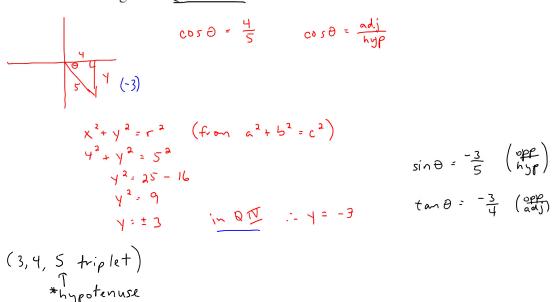


CAST Rule

The letter indicates the trig function that is positive in that Quadrant. All other trig functions would be negative.

QIII - Tarpis positive () sind

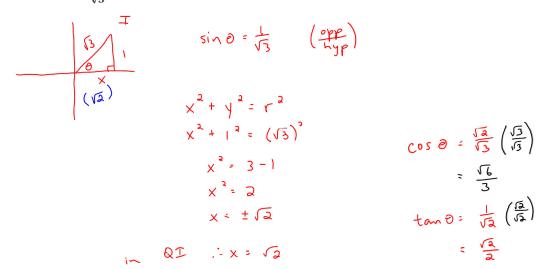
- Use your calculator to determine each of the following.
 - a) $\cos 200^{\circ} = -0.93969$ (x-coordinate is negative in Quadrant III)
 - b) $\tan 315^{\circ} = -1.0$ (x-coordinate is positive, y-coordinate is negative in Quadrant
 - c) $\sin 150^{\circ} = 0.5$ (y-coordinate is positive in Quadrant II)
- 2. Given that $\cos\theta = \frac{4}{5}$, determine the exact values of the other primary trigonometric ratios of the angle θ in Quadrant IV.

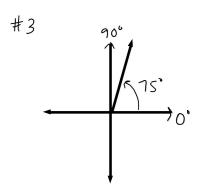


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3. Determine the exact values of the other primary trigonometric function if $\sin \theta = \frac{1}{\sqrt{3}}$ in Quadrant I.





Assignment: Pg. 448; #3, 5, 7, 13, worksheet # 1 a, c, e, g, i, k # 2 a, c, e, g