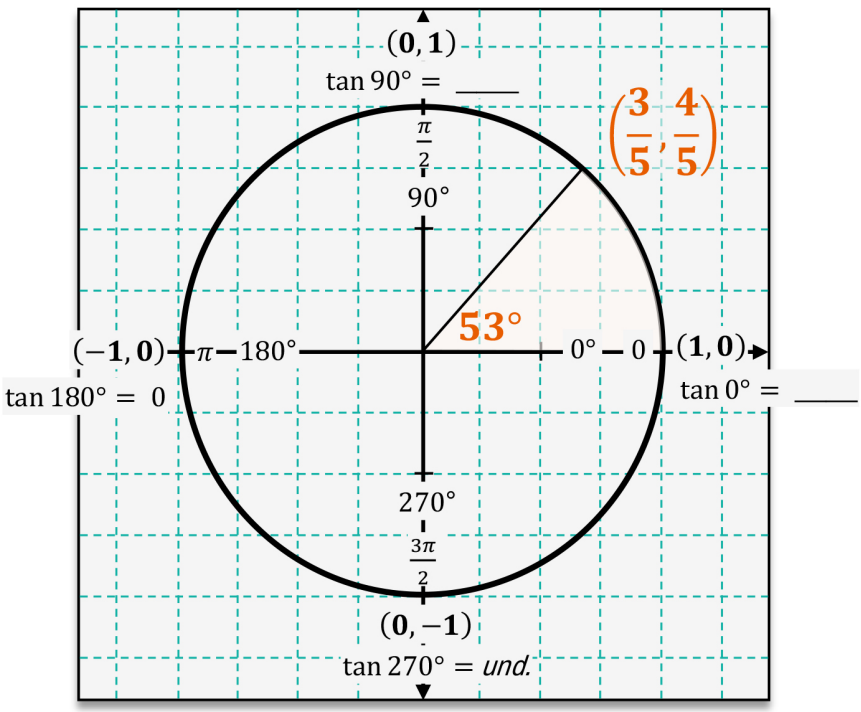
TOPIC: TRIG FUNCTIONS ON THE UNIT CIRCLE

Sine, Cosine, & Tangent on the Unit Circle

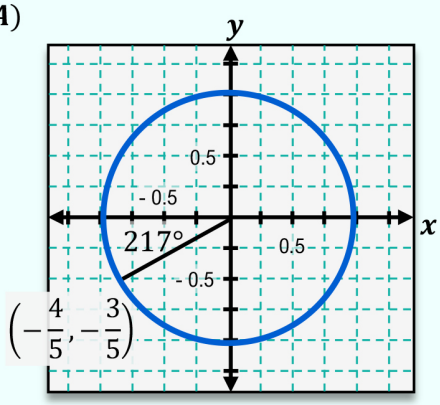
◆ **Trigonometric Functions** relate angles to _____ on the unit circle. On the unit circle:

- The **SIN** of an angle is *ALWAYS* the ___ value or the _____ of the corresponding triangle.
- The **COS** of an angle is *ALWAYS* the ___ value or the _____ of the corresponding triangle.
- The **TAN** of an angle is *ALWAYS* ___



EXAMPLE Find the sine, cosine, and tangent of each angle using the unit circle.

(A)

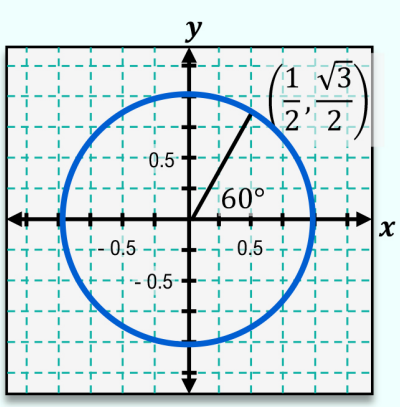


$\sin 217° =$ _____

$\cos 217° =$ _____

$\tan 217° =$ _____

(B)



$\sin 60° =$ _____

$\cos 60° =$ _____

$\tan 60° =$ _____

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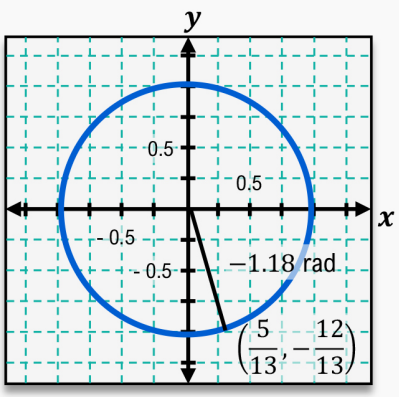
PRACTICE Find the sine, cosine, and tangent of each angle using the unit circle.

(*A*)

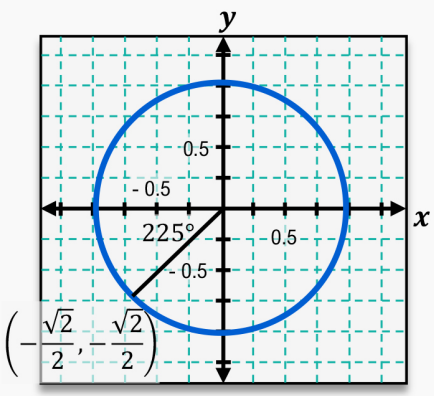


$\sin\theta =$ _____

$\cos\theta =$ _____

$\tan\theta =$ _____

(*B*)



$\sin\theta =$ _____

$\cos\theta =$ _____

$\tan\theta =$ _____