

Homepage

Semester Project

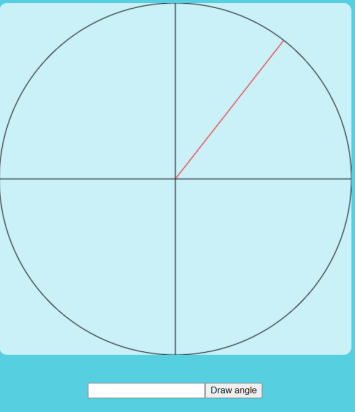
Assignments

Class Webpage

Semester Project

IntroductionHistory of Unit CirclesGeometric PrinciplesApplicationsResources

For my semester project, I will discuss how triangles and angles helped mathematicians develop the Unit Circle. This semester I am excited to find interactive ways to explain the derivation of the Unit Circle and how it can be helpful for us today. Understanding its history and creation will help students understand how to use it more effectively in the real world.



History of Unit Circles

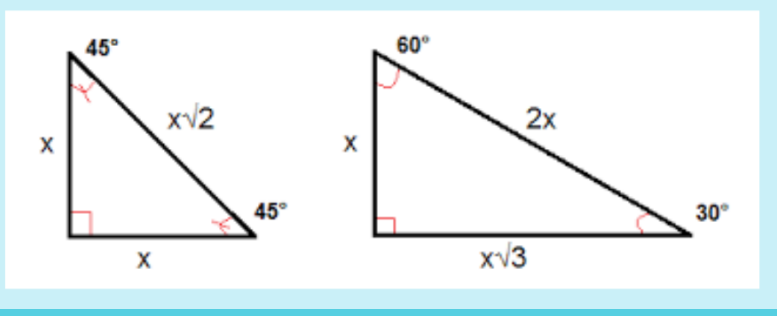
IntroductionHistory of Unit CirclesGeometric PrinciplesApplicationsResources

I will be talking about the history of the unit circle and how it was created here. I will also have a lot of pictures.

Geometric Principles

IntroductionHistory of Unit CirclesGeometric PrinciplesApplicationsResources

I will be including a lot of applets, videos, and pictures here about triangle relationships.



Applications

IntroductionHistory of Unit CirclesGeometric PrinciplesApplicationsResources

I will be including a list of applications for the unit circle here.

Resources

IntroductionHistory of Unit CirclesGeometric PrinciplesApplicationsResources

I will be including a blurb about the resources here.

Resources	
<a href="#">Unit Circle Game</a>	This is a video game that allows two people to compete at filling out the unit circle values based on the prompts they receive. It's pretty fun!
<a href="#">Unit Circle Hit the Octopus Game</a>	This is a fun video game that requires you to fill in the correct answer for the angles on the unit circle to launch a pie at an octopus! Let's hope you don't miss!
<a href="#">Unit Circle Quiz and Applet about 30, 45, 60 Triangle Properties</a>	This is a resource that allows you to see how the angles relate to the sides of special triangles. There is an applet that allows you to visually see this. There are also practice problems with solutions to make sure you really understand the concept.
<a href="#">Unit Circle Construction Video</a>	This is a great video by Kahn Academy that helps students understand how the unit circle is used to define sine, cosine, and tangent for all real numbers.
<a href="#">Unit Circle Solving for Triangles Video</a>	This is a great video by Kahn Academy that helps students understand how to solve the triangles inside the unit circles.
<a href="#">Trigonometry Textbook</a>	This is an amazing resource on trigonometry written by Ted Sundstrom and Steven Schlicker. This textbook lays the foundation for the discovery of certain relationships and the creation of the unit circle. This will help give students a deeper understanding about why the unit circle works the way it does and how it can help us in the real world.