

Name: Mrs. Woods		Grading Quarter: 1	Week Beginning: 9/25/23
School Year: 23-24		Subject: Precalculus	
Monday	Notes:	Objective: Students will be able to find missing sides and angles in right triangles. Lesson Overview: Notes – finding missing sides (trig functions), missing angles (inverse trig), and angle of elevation or depression	Academic Standards: P.F-TF.A.3 Use special triangles to determine geometrically the values of sine, cosine, tangent for $\pi/3$, $\pi/4$ and $\pi/6$, and use the unit circle to express the values of sine, cosine, and tangent for $\pi-x$, $\pi+x$, and $2\pi-x$ in terms of their values for x, where x is any real number.
Tuesday	Notes:	Objective: Students will be able to find missing sides and angles in oblique triangles. Lesson Overview: Notes – Law of Sines and Cosines (and which types of triangles can be solved with each) Introduce the ambiguous case of Law of Sines	Academic Standards: P.G-SRT.D.10 Prove the Laws of Sines and Cosines and use them to solve problems. P.G-SRT.D.11 Understand and apply the Law of Sines and the Law of Cosines to find unknown measurements in right and non-right triangles (e.g., surveying problems, resultant forces).
Wednesday	Notes:	Objective: Students will be able to convert radians to degrees and vice versa. Lesson Overview: Notes – conversion formulas, positive and negative angles, the basics of the unit circle	Academic Standards: P.F-TF.A.3 Use special triangles to determine geometrically the values of sine, cosine, tangent for $\pi/3$, $\pi/4$ and $\pi/6$, and use the unit circle to express the values of sine, cosine, and tangent for $\pi-x$, $\pi+x$, and $2\pi-x$ in terms of their values for x, where x is any real number.
Thursday	Notes:	Objective: Students will be able to calculate arc length in degrees and radians. Lesson Overview: Notes – formulas for arc length in degrees and radians. Also review for quiz tomorrow.	Academic Standards: P.F-TF.A.3 Use special triangles to determine geometrically the values of sine, cosine, tangent for $\pi/3$, $\pi/4$ and $\pi/6$, and use the unit circle to express the values of sine, cosine, and tangent for $\pi-x$, $\pi+x$, and $2\pi-x$ in terms of their values for x, where x is any real number.

Friday	Notes:	Objective: Students will be able to find missing sides and angles of right triangles. Lesson Overview: Review concepts from U4 L1 on Kahoot	Academic Standards: P.F-TF.A.3 Use special triangles to determine geometrically the values of sine, cosine, tangent for $\pi/3$, $\pi/4$ and $\pi/6$, and use the unit circle to express the values of sine, cosine, and tangent for $\pi-x$, $\pi+x$, and $2\pi-x$ in terms of their values for x, where x is any real number.
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