AFM Unit 3: Circle Trigonometry

Objective 2.04 Use trigonometric (sine, cosine) functions to model and solve problems; justify results.

- Solve using tables, graphs, and algebraic properties.
- Create and identify transformations with respect to period, amplitude, and vertical and horizontal shifts.

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Day	Topic	Students will be able to:	Activity
1 Monday, Feb. 26	Unit 3 Day 1 Notes: Angle and Radian Measure	Convert between degrees and radians.Angles in standard position	
2 Tuesday, Feb. 27		ACT	
3 Wednesday, Feb. 28	Unit 3 Day 2 Notes: Reference Angles and Triangles	 Find Reference Angles Find 6 trig functions using Reference Triangles 	
4 Thursday, Mar. 1	Unit 3 Day 3 Notes: Arc Length and Area of a Sector	 Arc Length Area of Sector Use linear and angular speed to describe motion on a circular path. 	
5 Friday, Mar. 2		UNIT 3 QUIZ – Days 1	- 3
6 Monday, Mar. 5	Unit 3 Day 4 Notes: The Unit Circle	Intro to Unit Circle (Be ready for a quiz on the unit circle any day!)	
7 Tuesday, Mar. 6	Unit 3 Day 4 Notes Cont.: Trig Functions of any Angle	 Use a unit circle to define trig functions of real numbers. Use reference angles to evaluate trig functions. 	
8 Wednesday, Mar. 7	Unit 3 Day 5 Notes: Graphs of Sine and Cosine Functions	 Understand the graph of y = sinx. Understand the graph of y = cosx. Graph variations of y = sinx and y = cosx. Use vertical shifts. 	Discovery Lesson – Explore graphs of sine and cosine.
9 Thursday, Mar. 8	REVIEW		
10 Friday, Mar. 9	UNIT 3 TEST		