

**Unit 7 Trigonometry Part 4**

Date	Lesson/Topics	Khan Academy Videos/Exercise Sets	Done?		
Mon/Tues 5/18-5/19	<b>Live Session:</b> <ul style="list-style-type: none"> <li>Introduce new unit</li> </ul>				
	Lesson 1: The graph of sine, cosine and tangent	Video	Graph of $y=\sin(x)$ (9min)		
		Video	Intersection points of $y=\sin(x)$ and $y=\cos(x)$ (11min)		
		Video	Graph of $y=\tan(x)$ (10min)		
	Lesson 2: Introduction to amplitude, midline, and extrema of sinusoidal functions	Video	Features of sinusoidal functions (4min)		
		Exercise	Midline of sinusoidal functions from graph (4 problems)		
		Exercise	Amplitude of sinusoidal functions from graph (4 problems)		
	Lesson 3: Finding amplitude and midline of sinusoidal functions from their formulas	Exercise	Midline of sinusoidal functions from equations (4 problems)		
		Video	Amplitude and period of sinusoidal functions from equation (8min)		
		Exercise	Amplitude of sinusoidal functions from equation (4problems)		
Wed/Thurs 5/20-5/21	<b>Live Session:</b> <ul style="list-style-type: none"> <li>Answer questions for Lessons 1, 2 and 3</li> </ul>				
	Lesson 4: Period of sinusoidal functions	Exercise	Period of sinusoidal functions from graph (4problems)		
		Video	Amplitude and period of sinusoidal functions from equation (8min)		
		Exercise	Period of sinusoidal functions from equation (4 problems)		
		Article	Midline, amplitude and period review		
		<b>QUIZ</b>	<b>QUIZ 1 Due by Friday May 22, 2020</b>		
	Lesson 5: Graphing sinusoidal functions	Video	Transforming sinusoidal graphs: vertical stretch and horizontal reflection (12min)		
		Video	Transforming sinusoidal graphs: vertical and horizontal stretches (10min)		
		Exercise	Graph sinusoidal functions (4 problems)		
		Exercise	Graph sinusoidal functions: phase shift (4 problems)		
	Lesson 6: Arc length and Area of a Sector	Video	Arc length as fraction of circumference (2min)		
		Video	Arc length from subtended angle: radians (2min)		
		Exercise	Radians and arc length (4 problems)		
		Video	Area of a sector (2min)		
		Exercise	Area of a sector (4 problems)		
	Friday 5/22	<b>Delta Math Assignment</b> <b>Unit 7 Assignment #1</b>	<b>Exercise</b>	<b>Due by Tuesday May 26, 2020</b>	