

Chapter 5 Self-Assessment

Emerging: I am starting to understand the ideas

Developing: I am understanding many of the ideas but I make errors

Proficient: I have a complete understanding of the skills and concepts

Extending: I am pushing my learning to connect to advanced problems and ideas

Section		Level of comprehension	Assignment Completed
5.1	<ul style="list-style-type: none"> I can sketch the graphs of $y = a \sin bx$ and $y = a \cos bx$ in degrees and radians. I can determine characteristics (amplitude and period) from an equation and graph. From a graph I can find the equation of the trig function. 		
5.2	<ul style="list-style-type: none"> I can sketch the graphs of $y = a \sin b(x - c) + d$ and $y = a \cos b(x - c) + d$ in degrees and radians. I can determine characteristics (amplitude, period, vertical displacement, phase shift, y-intercept, domain and range) from an equation and a graph. From a graph I can find the equation of the trig function. 		
5.3	<ul style="list-style-type: none"> I can sketch the graph of $y = \tan bx$. I can determine characteristics (amplitude, period, asymptotes, zeros, domain and range) from an equation and graph. I can determine a trig function to model the situation and solve a problem. 		
5.4	<p><u>Part 1:</u> I can solve trig equations algebraically</p> <ul style="list-style-type: none"> Problems with a phase shift and change of period Problems that require factoring General solutions 		
	<p><u>Part 2:</u> I can solve various realistic problem</p> <ul style="list-style-type: none"> I can write trig equations that model a situation to solve a problem Ferris wheel, tide, temperature 		

Consider a sinusoidal function $y = a \sin b(x - c) + d$. Using terminology from chapter 5, **describe the effect that each of the parameters $a, b, c,$ and d** has on the graph of the function. Compare this to the terminology from Chapter 1 Function Transformations.

	Chapter 1 Function Transformations	Chapter 5 Sinusoidal Functions
a		
b		
c		
d		