

Accelerated Pre-Calculus

September 2022

Unit 2 – Graphing Trigonometric Functions

Monday	Tuesday	Wednesday	Thursday	Friday
9/5 Labor Day No School	9/6 Remote Day Asynchronous 2.01 Exploring the graphs of Sine & Cosine Functions on Desmos	7 2.02 Graphing Sine & Cosine Functions <ul style="list-style-type: none"> • Amplitude • Period 2.02 Amp & Per Wkst	8 2.03 Graphing Sine & Cosine Functions <ul style="list-style-type: none"> • Amplitude • Period 2.03 Amp & Per Wkst	9 2.04 Quiz: Graphing Sine & Cosine Functions with amplitude and period Start 2.05
12 2.05 Translations of Sine and Cosine Functions <ul style="list-style-type: none"> • Phase Shift 2.05 Amp, Per, and PS Wkst	13 2.06 Translations of Sine and Cosine Functions <ul style="list-style-type: none"> • Vertical Shift 2.06 Amp, Per, PS, and VS Wkst	14 2.07 Quiz Review Graphing Sin & Cos Station Review 2.07 Review Graphing Sin and Cos Wkst	15 2.08 Quiz: Graphing Sine and Cosine Functions No Calculator	16 2.09 Graphing Sec and Cosecant Functions 2.09 Graphing Sec and Csc Wkst
19 2.10 Graphing Tan and Cot Functions 2.10 Graphing Tan and Cot Wkst	20 2.11 More Graphing Trig Functions Practice 2.11 Graphing All Wkst	21 2.12 Quiz: Graphing Sec, Csc, Tan & Cot	22 2.13 Test Review 2.13 Test Review Wkst	23 2.14 Test – Unit 2 Graphing Trig Functions
26 2.15 Modeling Real World Applications 2.15 Sinusoidal Apps Wkst 1	27 2.16 Modeling Real World Applications contd. 2.16 More Practice	28 2.17 Modeling Real World Applications contd. 2.17 Task	29 2.18 Quiz: Sinusoidal Modeling Need a Calculator	30

Homework Keys:

tinyurl.com/MiltonAPC



Standards:

MGSE9-12.F.IF.4 Using tables, graphs, and verbal descriptions, interpret the key characteristics of a function which models the relationship between two quantities. Sketch a graph showing key features including: intercepts; interval where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior; and periodicity. Analyze functions using different representations

MGSE9-12.F.IF.7 Graph functions expressed algebraically and show key features of the graph both by hand and by using technology.

MGSE9-12.F.IF.7e Graph exponential and logarithmic functions, showing intercepts and end behavior, and trigonometric functions, showing period, midline, and amplitude.

MGSE9-12.F.TF.5 Choose trigonometric functions to model periodic phenomena with specified amplitude, frequency, and midline.

MGSE9-12.F.TF.4 Use the unit circle to explain symmetry (odd and even) and periodicity of trigonometric functions.