

Transformations of Trigonometric Functions

1. Sketch at least 1 cycle of the graph of the function $f(x) = -2\sec\left[2\left(x - \frac{\pi}{3}\right)\right] - 1$ and state all the features of the graph.

Amplitude: _____

Equation of Axis: _____

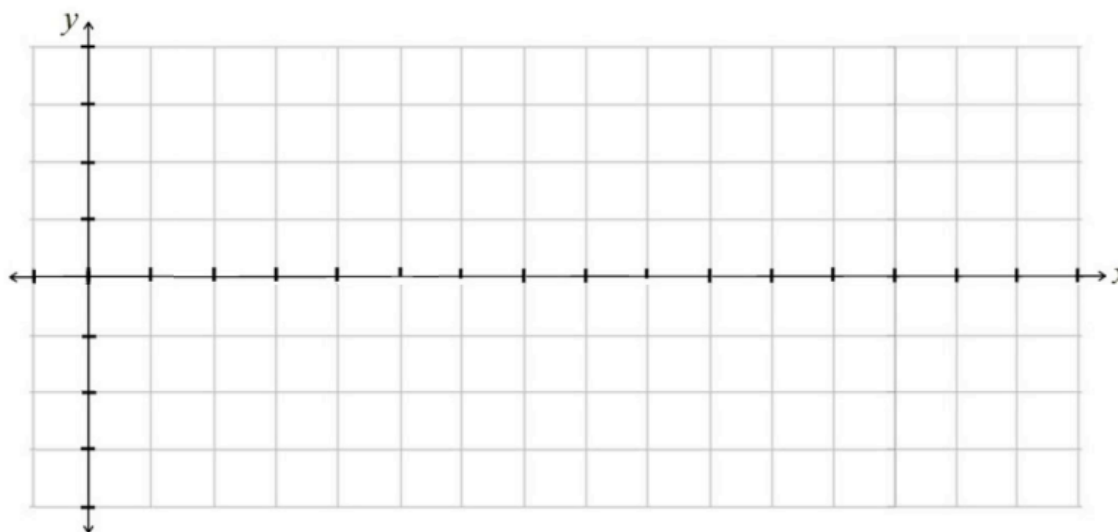
Maximum Value: _____

Minimum Value: _____

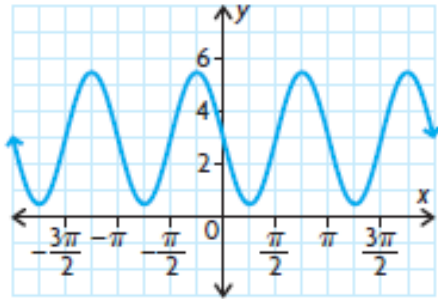
Period: _____

Start of Cycle: _____

End of Cycle: _____



State the transformations of the following sinusoidal function and determine an equation to represent the graph.



Start of Cycle:

End of Cycle:

Period:

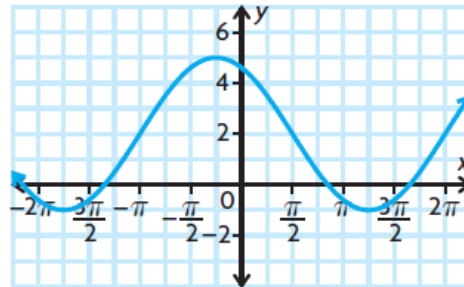
Max:

Min:

Amplitude:

Equation of Axis:

Equation:



Start of Cycle:

End of Cycle:

Period:

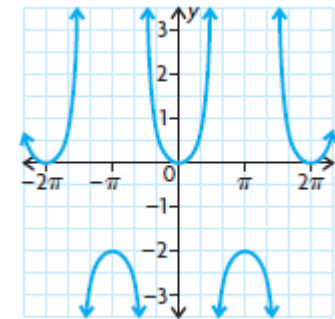
Max:

Min:

Amplitude:

Equation of Axis:

Equation:



Start of Cycle:

End of Cycle:

Period:

Max:

Min:

Amplitude:

Equation of Axis:

Equation: