Parent Function Example Characteristics: Graph one period of the function. For this period, determine where the graph is increasing or decreasing, Domain & Range, Max & Min, Asymptotes, odd/even/neither, and if one-to-one

Function	Domain	Range	Max	Min	Asymptotes	Inc./Decreasing	Odd/Even	One- to -One
y= sin x								
Function	**Domain**	**Range**	**Max**	**Min**	**Asymptotes**	**Inc./Decreasing**	**Odd/Even**	**One- to -One**
y = cos x								

Function	Domain	Range	Max	Min	Asymptotes	Inc./Decreasing	Odd/Even	One- to -One
y = csc x								

Function	Domain	Range	Max	Min	Asymptotes	Inc./Decreasing	Odd/Even	One- to -One
y = secx								

Function	Domain	Range	Max	Min	Asymptotes	Inc./Decreasing	Odd/Even	One- to -One
y = tan x								

Function	Domain	Range	Max	Min	Asymptotes	Inc./Decreasing	Odd/Even	One- to -One
y = cot x								

You try.

Function	Domain	Range	Max	Min	Asymptotes	Inc./Decreasing	Odd/Even	One- to -One
$y=\frac{1}{2}\sin\left(\frac{\theta}{2}-\frac{2\pi}{3}\right)$								

Function	Domain	Range	Max	Min	Asymptotes	Inc./Decreasing	Odd/Even	One- to -One
$y=2\cos(3\theta)-1$								

Function	Domain	Range	Max	Min	Asymptotes	Inc./Decreasing	Odd/Even	One- to -One
$y = 2\sec\frac{\theta}{2} + 2$								

Function	Domain	Range	Max	Min	Asymptotes	Inc./Decreasing	Odd/Even	One- to -One
$y = 2\csc\left(\frac{\theta}{3} - \frac{11\pi}{6}\right)$								

Function	Domain	Range	Max	Min	Asymptotes	Inc./Decreasing	Odd/Even	One- to -One
$y = 3\tan\theta$								

Function	Domain	Range	Max	Min	Asymptotes	Inc./Decreasing	Odd/Even	One- to -One
$y = 4\cot 2\theta$								