PROJECT: THE RECIPROCAL FUNCTIONS

All of the graphs of the reciprocal trig functions have asymptotes. Do you know where they're located?

Graphs of the sine, cosine, and tangent functions can aid in graphing their reciprocal functions. In this project, you will be introduced to the graph of $y = \csc x$. Using this information and your knowledge of the cosine and tangent functions, you will graph the secant and cotangent functions. In trying to answer the question above, think about what happens when you reciprocate zero.

F 23

OBJECTIVES

- Graph the reciprocal trigonometric functions.
- Identify the domain and range of the reciprocal functions.

Graph of the Cosecant Function

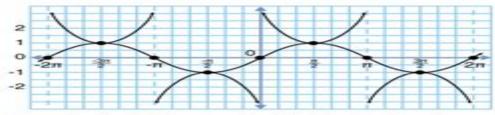
Cosecant is the reciprocal of the sine function. To find some ordered pairs on the graph of $y = \csc x$, we can use the points on the graph of $y = \sin x$ and reciprocate the y values.

Note that when the value of sine is 0, the reciprocal is undefined, which means that there are asymptotes in the cosecant graph wherever the value of y is 0 on the sine graph.

| × | 0 | 8 | 7 | 3 | 7 2 | 2 m | 3n | 5m 6 | - | 7m | 5m | 4nt 3 | 3n 2 | 5m 3 | 7n | 11m 6 | 2 n |
|-------|----|-----|----|----|-----|-----|----|---------|----|-----|-----|----------|------|---------|-----|----------|-----|
| sin x | 0 | 1 2 | 2 | 23 | 1 | 2 | 72 | 1 2 | 0 | -12 | -17 | -53 | 1 | -53 | -12 | -12 | 0 |
| cscx | u- | 2 | 32 | 훒 | 1 | 3 | 3 | 2 | u- | - 2 | - 2 | -2 | - 1 | -3 | - 3 | - 2 | m. |

" U stands for an Undefined value

Plotting these points for sinx and cscx on the same axes results in the following graph:



Because the domain of $y = \csc x$ must exclude the values where the asymptotes are located, the domain is all real numbers except att where a is an integer.

The range of $y = \csc x$ is $y \le -1$ or $y \ge 1$.

Directions

- 1. Print out two sheets of graph paper. Click here for a sheet of graph paper to print.
- 2. Complete a table of values, such as the ones shown here, for graphing the secant and cotangent functions.

| * | 0 | 6 | 7 | 3 | 표 2 | 2 m | $\frac{3\pi}{4}$ | 5m | 77 | 7m | 5m | 4m 3 | 3n | 5m | 7 m | 11m 6 | 2 71 |
|-------|---|---|---|---|--------|-----|------------------|----|----|----|----|---------|----|----|-----|----------|------|
| cos x | П | | | | | | | | | | | | | | | | |
| sec x | | | | | | | | | Ĩ. | | | | | | | | |

* U stands for an Undefined value

| × | 0 | 6 | # 4 | 3 | 72 | 2 11 | $\frac{3\pi}{4}$ | 5m | 77 | 7m 6 | 5m | 4m 3 | 3m | 5m 3 | 7m | 11m 6 | 2 = |
|-------|---|---|--------|---|----|------|------------------|----|----|---------|----|---------|----|---------|----|----------|-----|
| tan x | | | | | | | | | | | | | | | | | |
| cot x | | | | | | | | | | | | | | | | | |

" II stands for an Undefined value

- Graph the secant graph on one set of axes for 0 ≤ x ≤ 2π. (You may wish to graph the cosine function first to aid you in graphing the secant.)
- Graph the cotangent graph on one set of axes for 0 ≤ x ≤ 2x.
- In the box below, indicate whether the reciprocal functions are periodic functions. If so, state the period of each.
- In the box below, describe the domain and range for the secant and cotangent functions. (Use "pi" for r .)
- 7. In the box below, compare the graphs of the cosecant and tangent functions.

Trig Tables And Graphs Key

Yang Kuang, Michelle Rose Gilman, Elleyne Kase

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