

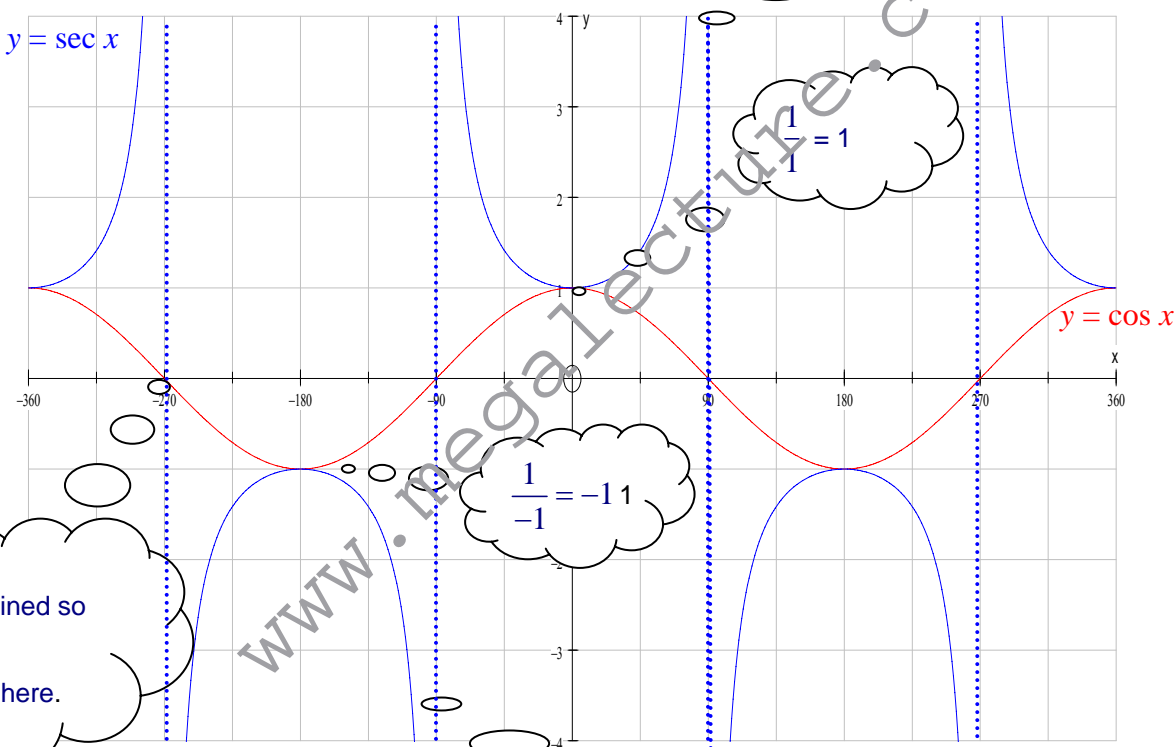
Trigonometry

Section 1: Trigonometric identities

Graphs of the Reciprocal Trigonometric Functions

The graph of $y = \sec x$ is found by plotting $y = \frac{1}{\cos x}$

1 divided by a positive number very close to 0 approaches +infinity. Remember you can't divide by 0.

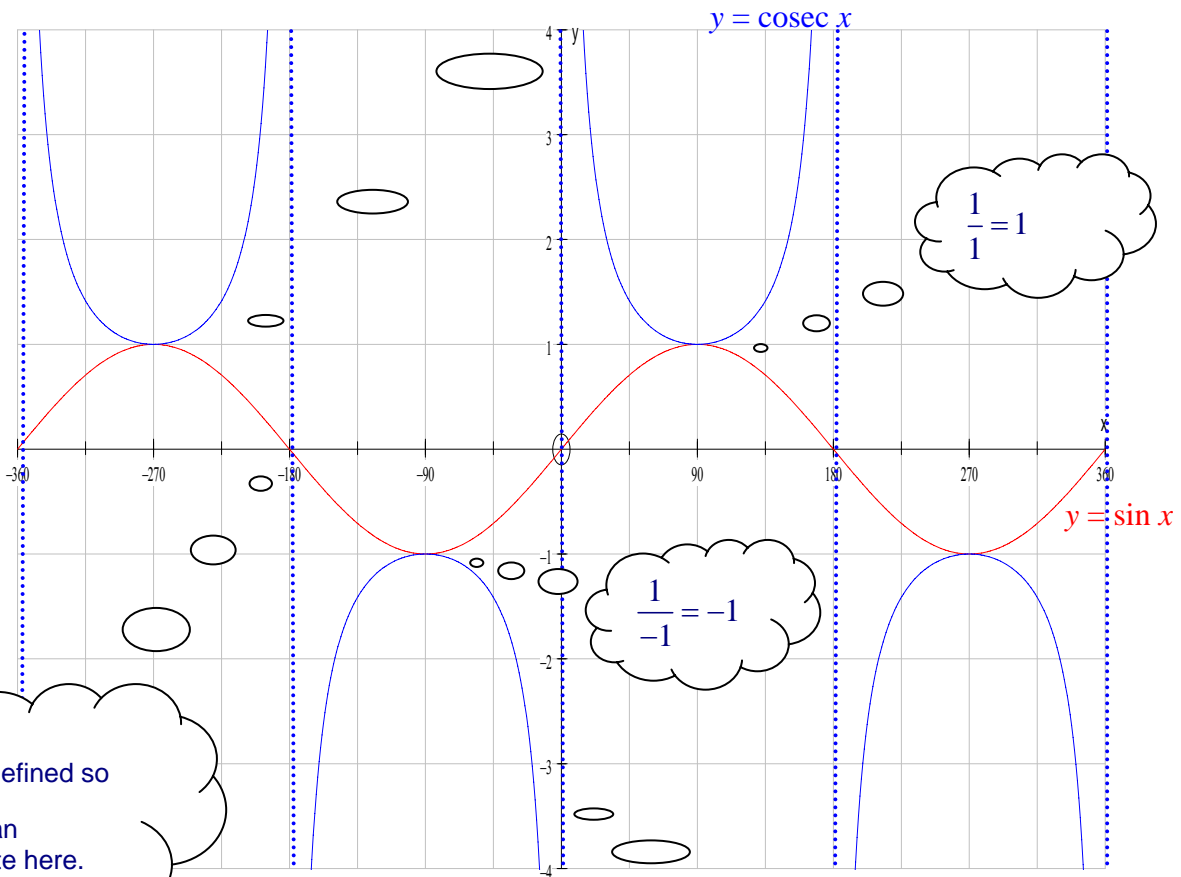


$\frac{1}{0}$ is undefined so there is an asymptote here.

1 divided by a negative number very close to 0 approaches -infinity. Remember you can't divide by 0.

The graph of $y = \operatorname{cosec} x$ is found by plotting $y = \frac{1}{\sin x}$

1 divided by a positive number very close to 0 approaches +infinity. Remember you can't divide by 0.



$\frac{1}{1} = 1$

$\frac{1}{-1} = -1$

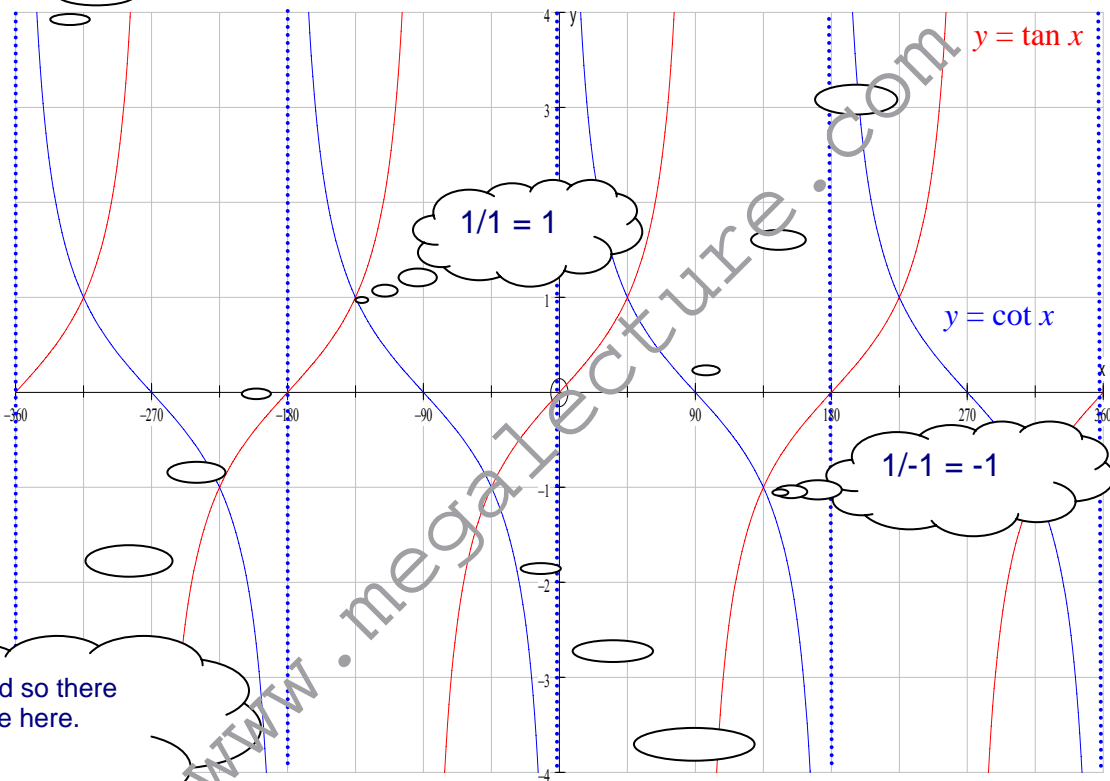
$\frac{1}{0}$ is undefined so there is an asymptote here.

1 divided by a negative number very close to 0 approaches -infinity. Remember you can't divide by 0.

The graph of $y = \cot x$ is found by plotting $y = \frac{1}{\tan x}$

1 divided by a positive number very close to 0 approaches +infinity. Remember you can't divide by 0.

1 divided by a number very close to infinity approaches 0.



1/0 is undefined so there is an asymptote here.

1 divided by a negative number very close to 0 approaches -infinity. Remember you can't divide by 0.

