# Graphs of the Other Trigonometric Functions

Recall the definitions of the other trig functions:

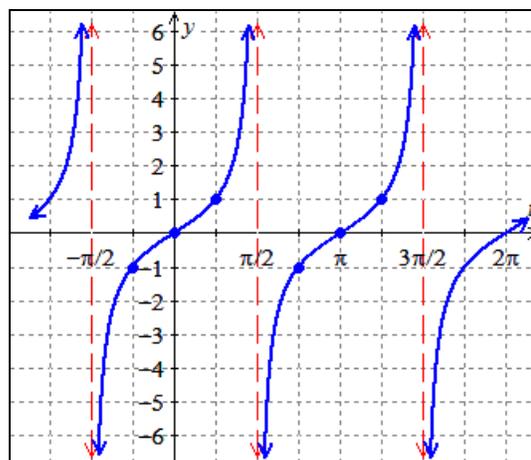**DEFINITIONS:**   The **tangent function**, denoted $\tan(t)$, is defined by_____.

The **cotangent function**, denoted $\cot(t)$, is defined by_____.

Consequently:

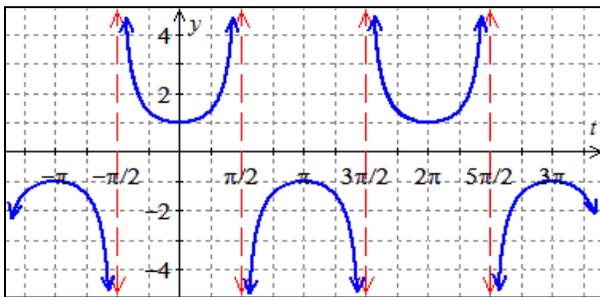The **secant function**, denoted $\sec(t)$, is defined by_____.

The **cosecant function**, denoted $\csc(t)$, is defined by_____.

Below is the graph $y = \tan(t)$. Let's discuss why the graph looks like it does.
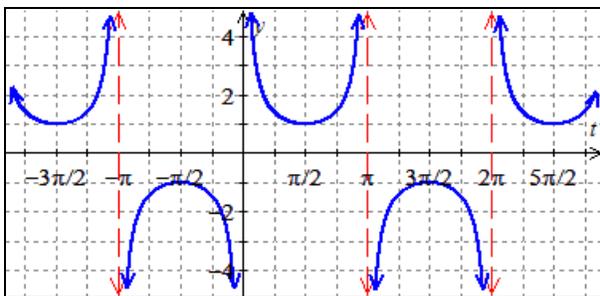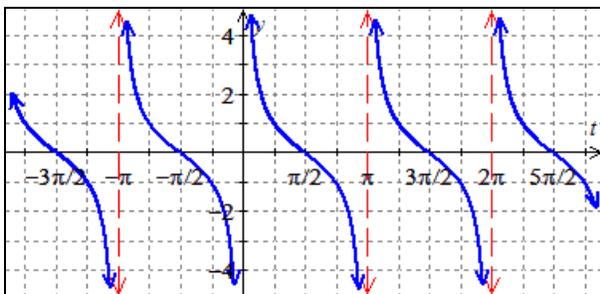


A graph $y = \tan(t)$.

Below are the graphs of $y = \sec(t)$, $y = \csc(t)$, and $y = \cot(t)$. Let's discuss why these graphs look like they do.



A graph of $y = \sec(t)$.



A graph of $y = \csc(t)$.



A graph of $y = \cot(t)$.