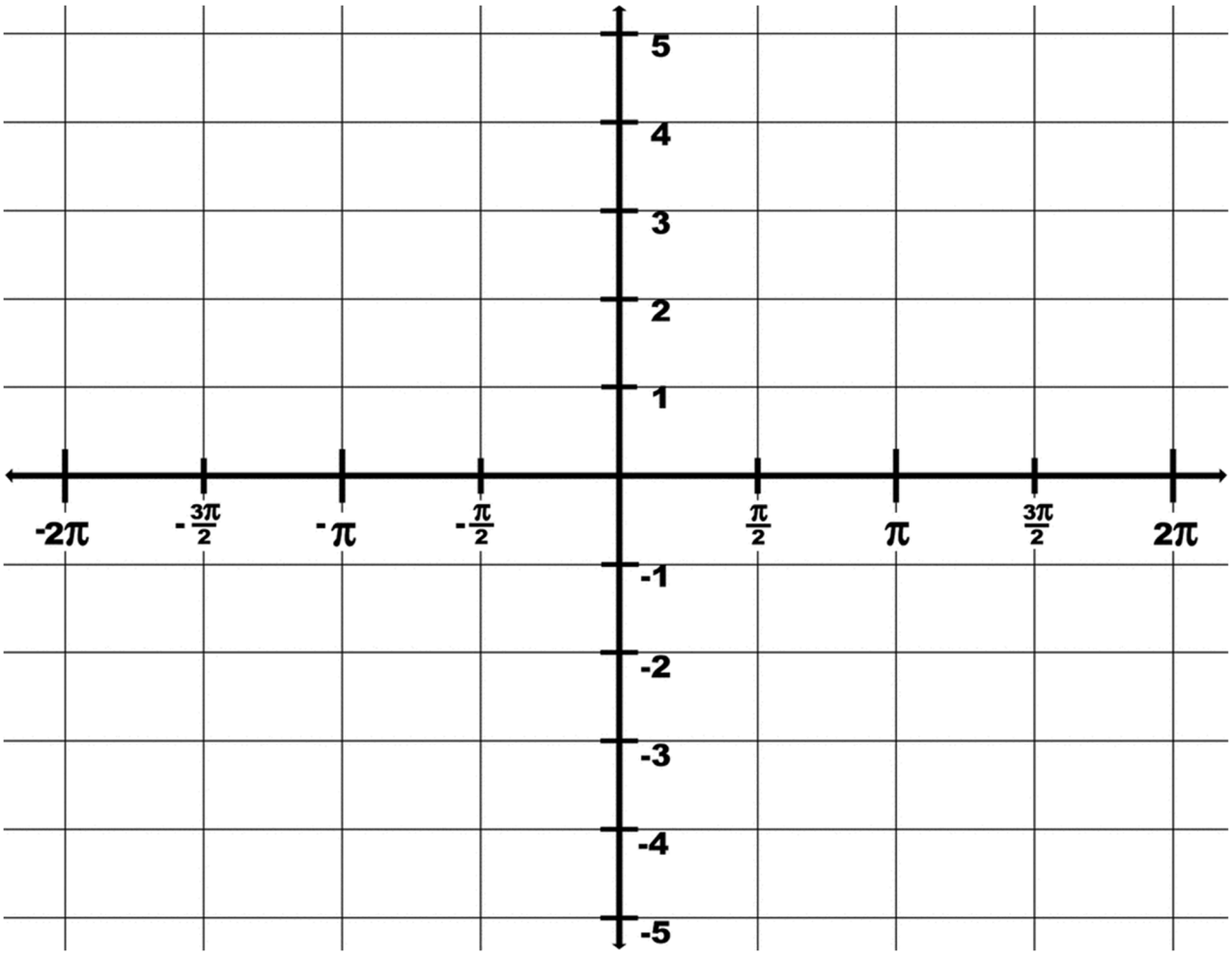
Trigonometry/Precalculus
Graphing Tangent & Reciprocal Trig Functions
Day _____

Name
Date
Block

1) Fill in the table to graph f(x) = tan x.

x	$-\frac{3\pi}{2}$	$-\frac{5\pi}{4}$	$-\pi$	$-\frac{3\pi}{4}$	$-\frac{\pi}{2}$	$-\frac{\pi}{4}$	0	$\frac{\pi}{4}$	$\frac{\pi}{2}$
tan x									

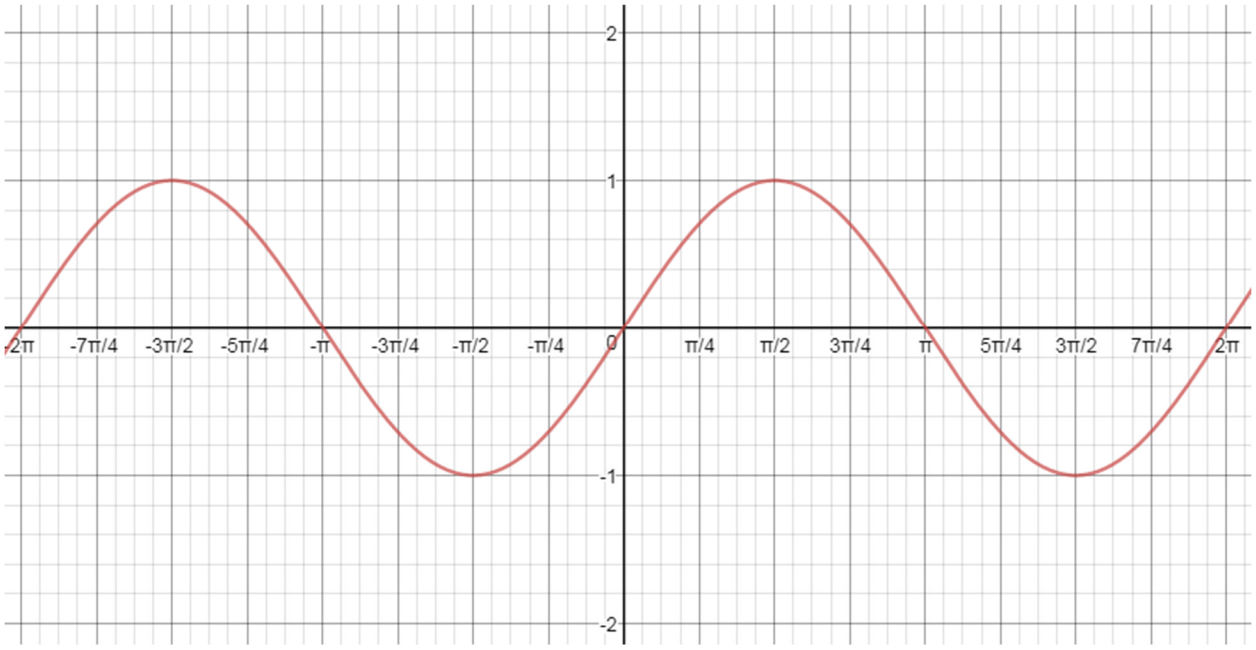
x	$\frac{3\pi}{4}$	π	$\frac{5\pi}{4}$	$\frac{3\pi}{2}$
tan x				



Plot the points above. Sketch an asymptote for each value of x that is undefined. Let the asymptotes shape your curve as you connect it.

2) The graph of f(x) = sinx is shown below. Fill in the table to graph csc x = $\frac{1}{f(x)}$.

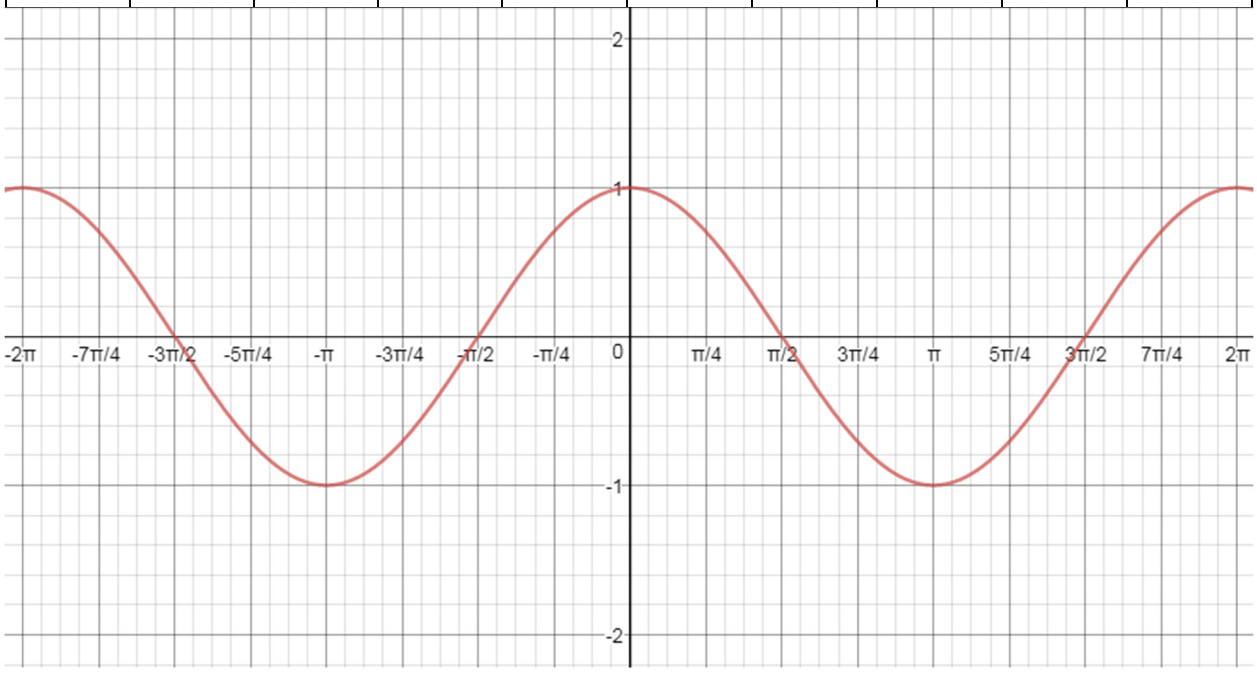
x	0	$\frac{\pi}{4}$	$\frac{\pi}{2}$	$\frac{3\pi}{4}$	π	$\frac{5\pi}{4}$	$\frac{3\pi}{2}$	$\frac{7\pi}{4}$	2π
csc x									



Plot the points above. Sketch an asymptote for each value of x that is undefined. Let the asymptotes shape your curve as you connect it.

3) The graph of f(x) = cosx is shown below. Fill in the table to graph sec x = $\frac{1}{f(x)}$.

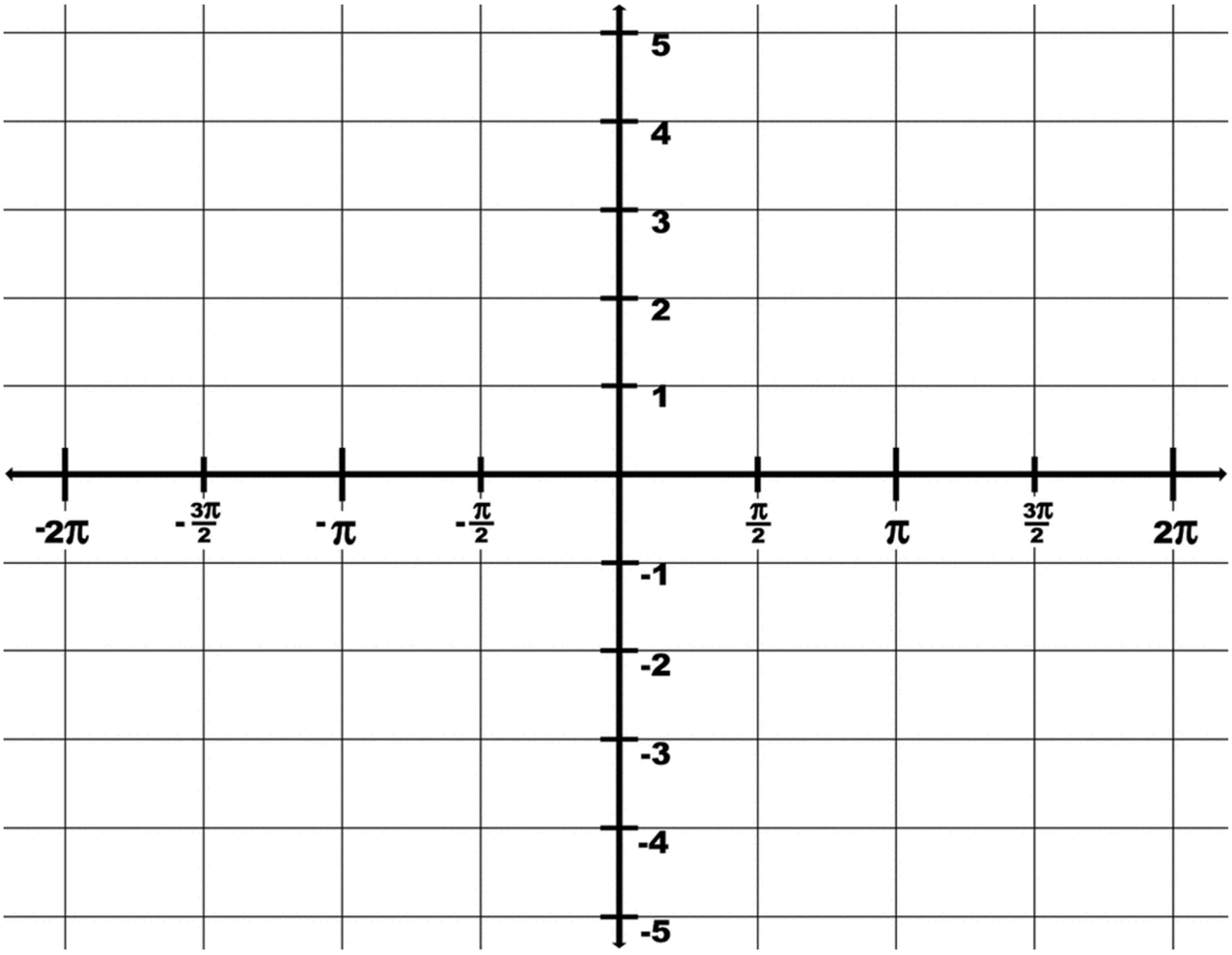
x	0	$\frac{\pi}{4}$	$\frac{\pi}{2}$	$\frac{3\pi}{4}$	π	$\frac{5\pi}{4}$	$\frac{3\pi}{2}$	$\frac{7\pi}{4}$	2π
sec x									



4) Fill in the table to graph f(x) = cot x.

x	$-\pi$	$-\frac{3\pi}{4}$	$-\frac{\pi}{2}$	$-\frac{\pi}{4}$	o	$\frac{\pi}{4}$	$\frac{\pi}{2}$	$\frac{3\pi}{4}$	π
cot x									

x	$\frac{5\pi}{4}$	$\frac{3\pi}{2}$	$\frac{7\pi}{4}$	2π
cot x				



Trigonometry/Precalculus
Day 19 Warm Up

1) The _____ of a sine or cosine curve represents the distance from the midline to either the peak or valley of a wave.

2) The amount of distance it takes to complete one cycle of a sinusoidal curve

   is called its_____.

3) The _____ of a sinusoidal function tells how many cycles occur in the span of 2π .

4) The equation that relates the period and frequency of a sinusoidal curve is _____.

5) For both sine and cosine curves, the domain is _____ and

   the range is_____.

6) To calculuate the tangent of an angle on the Unit Circle, divide the

   _____ by the _____.

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