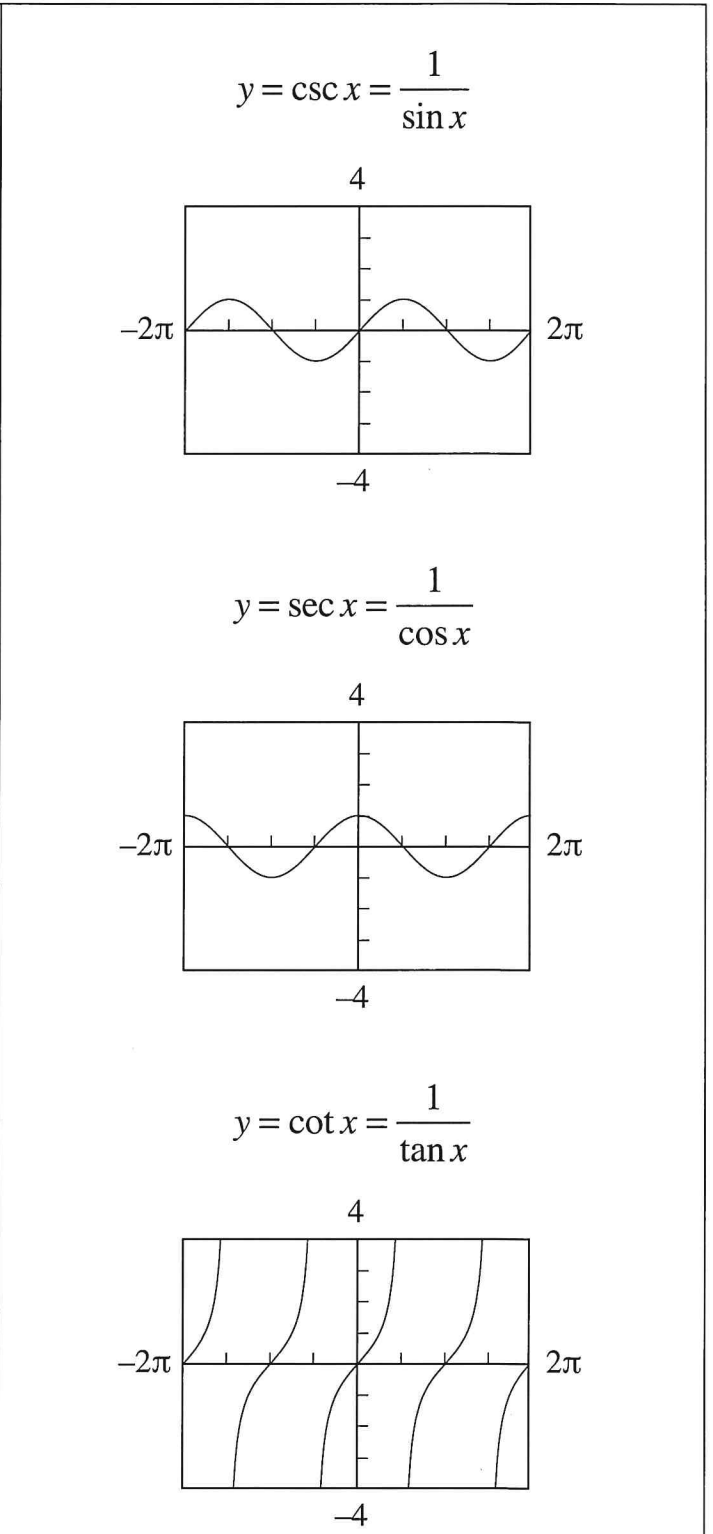
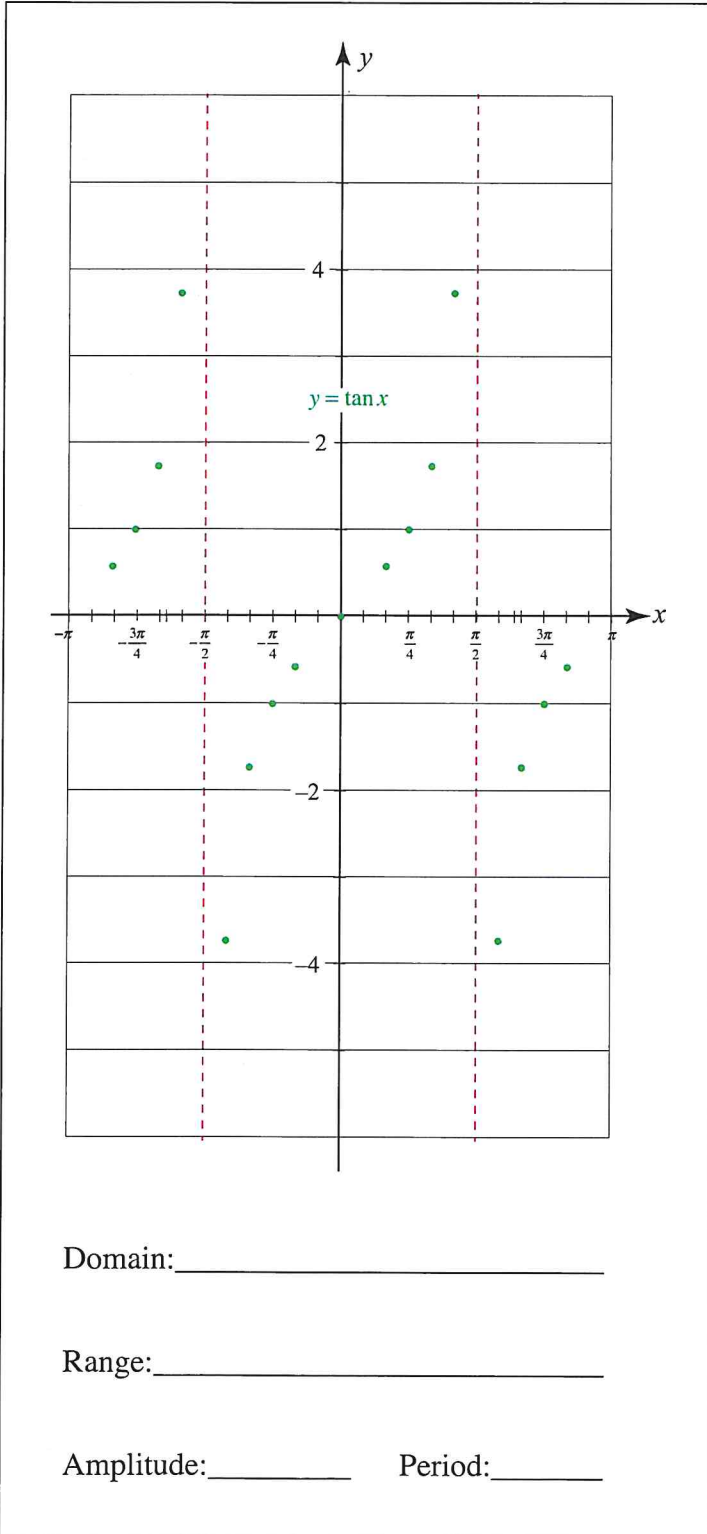


Consider the graph of $y = \tan x$ over the interval $(-\pi/2, \pi/2)$:

x	$-\pi/2$	$-\pi/3$	$-\pi/4$	$-\pi/6$	0	$\pi/6$	$\pi/4$	$\pi/3$	$\pi/2$
y	$-\infty$	$-\sqrt{3}$	-1	$-\sqrt{3}/3$	0	$\sqrt{3}/3$	1	$\sqrt{3}$	∞



Homework Assignment #23

Directions: Use a graphing calculator to graph the following functions in the window $[-2\pi, 2\pi] \times [-10, 10]$. Copy the graph to your engineering paper. State the period of each function and identify any vertical asymptotes in the given window

1. $y = \tan\left(\frac{x}{4}\right)$

2. $y = -\frac{3}{2}\tan\left(\frac{x}{2}\right)$

3. $y = 2\cot x$

4. $y = \frac{2}{3}\cot\left(\frac{x}{3}\right)$

5. $y = -\frac{1}{2}\sec x$

6. $y = 3\sec\left(\frac{x}{2}\right)$

7. $y = 2\csc x$

8. $y = \pi\csc(2x)$