

LESSON
11-2

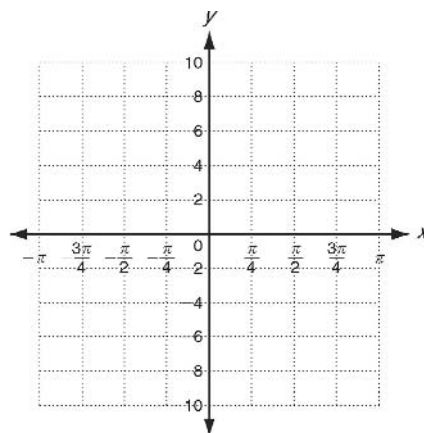
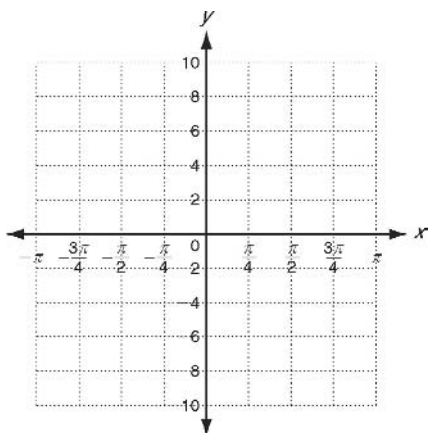
Practice C

Graphs of Other Trigonometric Functions

Using $f(x) = \tan x$ or $f(x) = \cot x$ as a guide, graph each function. Identify the period, x -intercepts, and asymptotes.

1. $k(x) = \frac{1}{4} \tan(\pi x)$

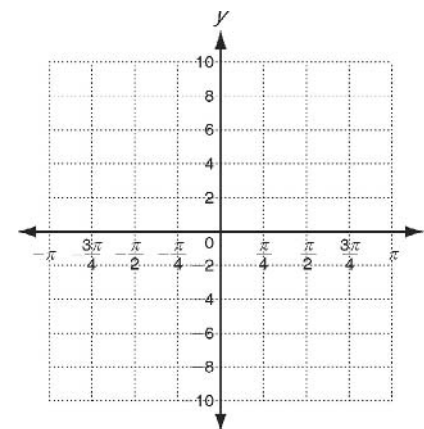
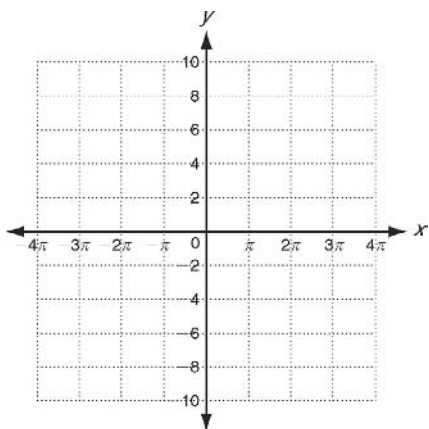
2. $c(x) = \cot\left(\frac{2x}{3}\right)$



Using $f(x) = \cos x$ or $f(x) = \sin x$ as a guide, graph each function. Identify the period and asymptotes.

3. $k(x) = \sec \frac{x}{4}$

4. $q(x) = 2 \csc(2x)$



Solve.

5. A strobe light is located in the center of a square dance room. The rotating light is 40 feet from each of the 4 walls and completes one full rotation every 6 seconds. The equation representing the distance, d , in feet that the center of the circle of light is from the light source is $d(t) = 40 \sec\left(\frac{\pi t}{3}\right)$.

a. What is the period of $d(t)$? _____

b. Find the value of the function at $t = 2.5$. _____

