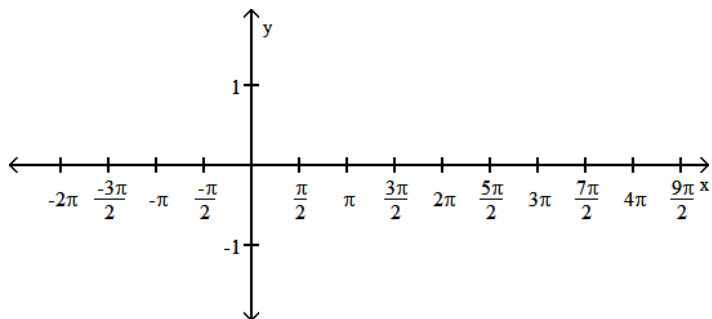


Solve the problem.

- 1) Tides go up and down in a 12.8-hour period. The average depth of a certain river is 8 m and ranges from 5 to 11 m. The variation can be approximated by a sine curve. Write an equation that gives the approximate variation y , if x is the number of hours after midnight and high tide occurs at 10:00 am.

Graph the function.

- 2) $y = -\tan x$

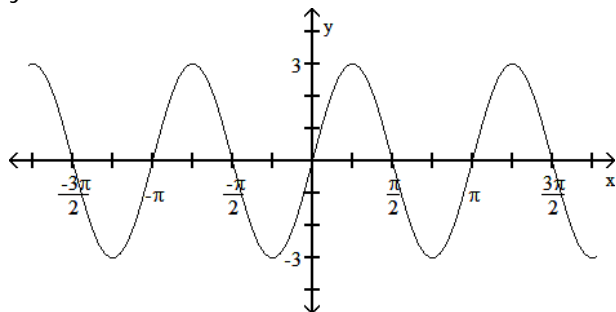


Match the function to its graph.

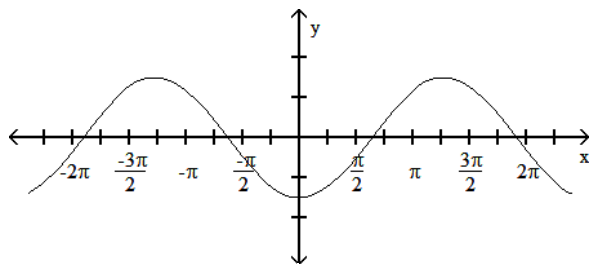
- 3) $y = \tan\left(x + \frac{\pi}{2}\right)$

Use the graph to obtain the graph of the reciprocal function. Give the equation of the function for the graph that you obtain.

- 4) $y = 3 \sin 2x$



- 5) $y = -3 \cos \frac{\pi}{4}x$

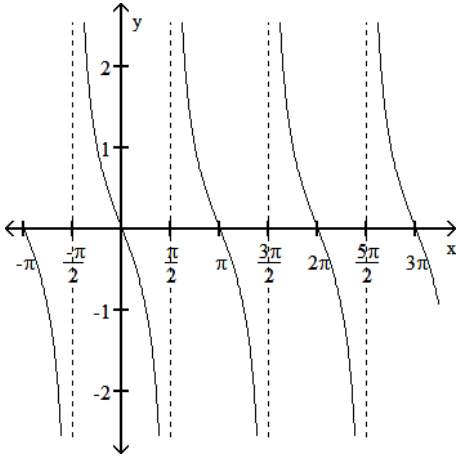


Answer Key

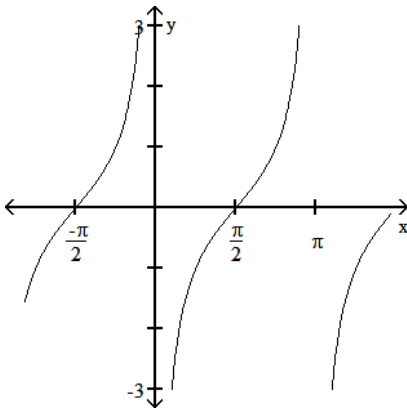
Testname: PRACTICE06

1) $y = 3 \sin\left(\frac{\pi x}{6.4} - \frac{6.8\pi}{6.4}\right) + 8$

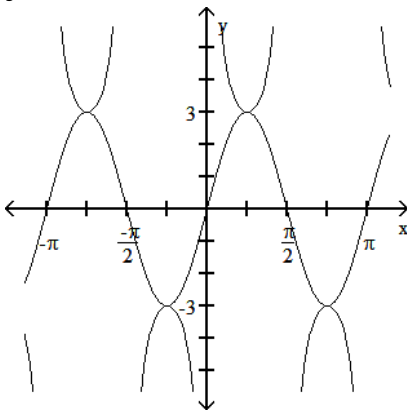
2)



3)



4) $y = 3 \csc 2x$



Answer Key

Testname: PRACTICE06

5) $y = -3 \sec \frac{\pi}{4}x$

