

8.3 — OTHER TRIGONOMETRIC FUNCTIONS

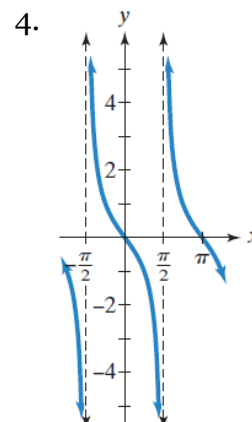
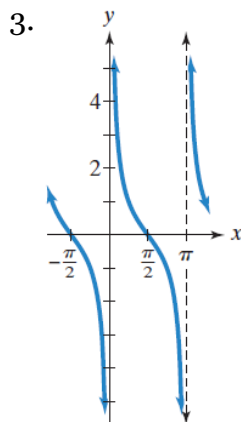
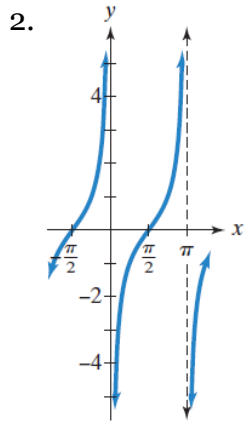
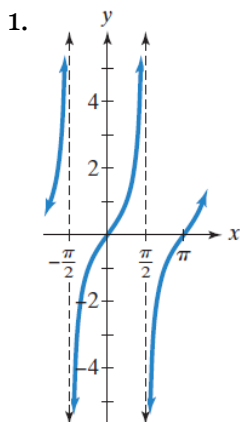
The graph of a tangent function is given. Select the equation for each graph from the following options:

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

b. $y = \tan(x + \pi)$

c. $y = -\tan x$

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



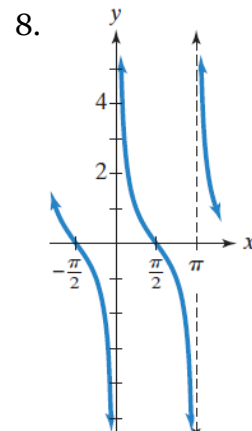
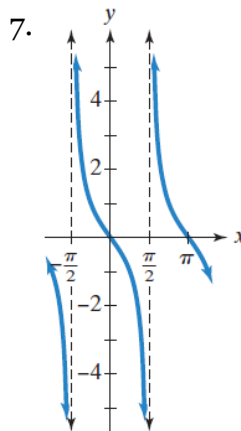
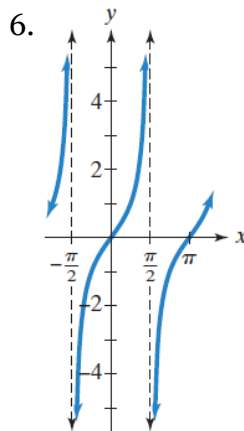
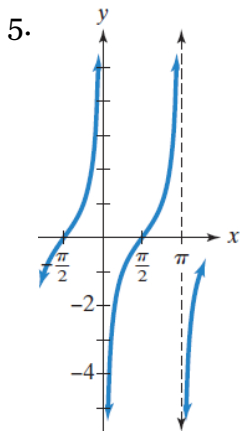
The graph of a cotangent function is given. Select the equation for each graph from the following options:

a. $y = \cot\left(x + \frac{\pi}{2}\right)$

b. $y = \cot(x + \pi)$

c. $y = -\cot x$

d. $y = -\cot\left(x - \frac{\pi}{2}\right)$



Match the function to its graph.

9. $y = \csc x$

10. $y = \sec x$

11. $y = \cot x$

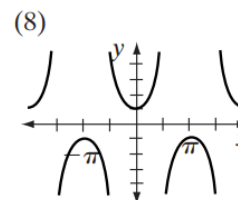
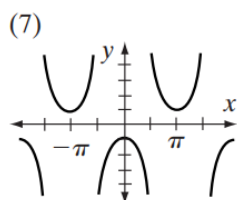
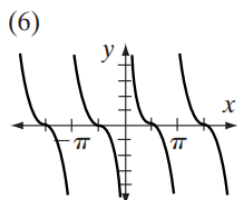
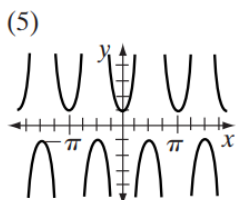
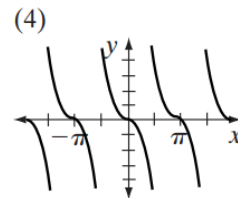
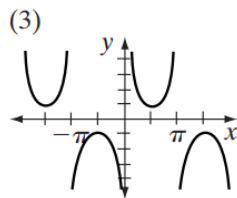
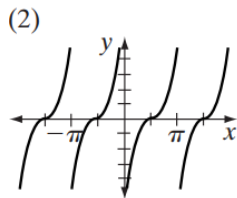
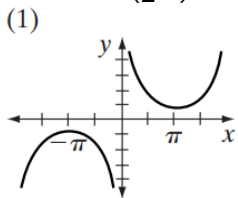
12. $y = -\sec x$

13. $y = \csc\left(\frac{1}{2}x\right)$

14. $y = \sec(2x)$

15. $y = -\cot x$

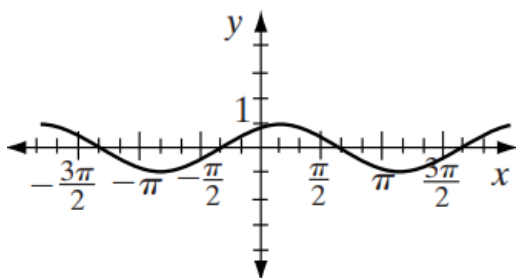
16. $y = \cot\left(x + \frac{\pi}{2}\right)$



Spiral Review

State the period, amplitude, midline, and whether the function has been flipped. Then find a formula for the sinusoidal function whose graph is shown.

17.



PERIOD:

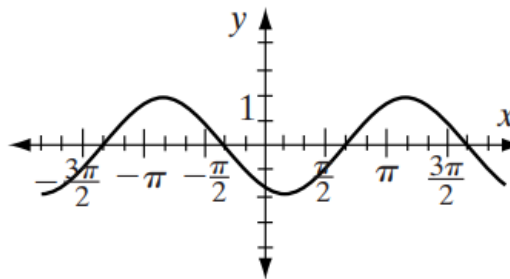
AMPLITUDE:

MIDLINE:

FLIPPED?:

FORMULA:

18.



PERIOD:

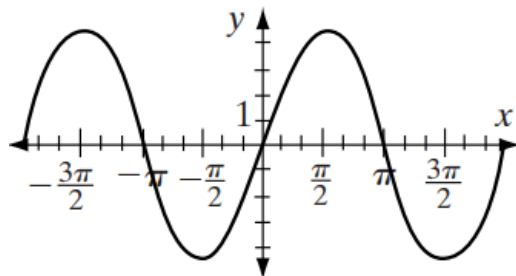
AMPLITUDE:

MIDLINE:

FLIPPED?:

FORMULA:

19.



PERIOD:

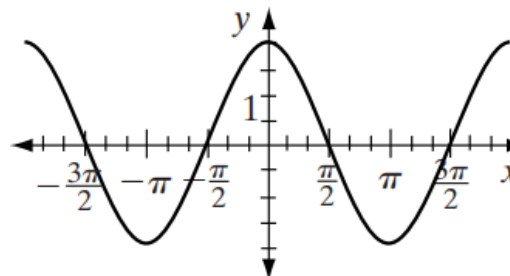
AMPLITUDE:

MIDLINE:

FLIPPED?:

FORMULA:

20.



PERIOD:

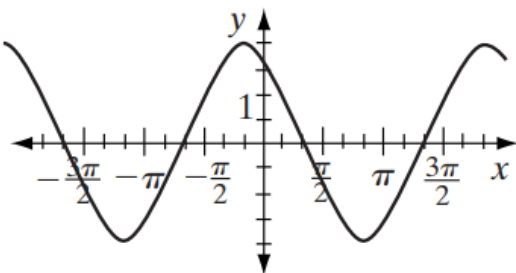
AMPLITUDE:

MIDLINE:

FLIPPED?:

FORMULA:

21.



PERIOD:

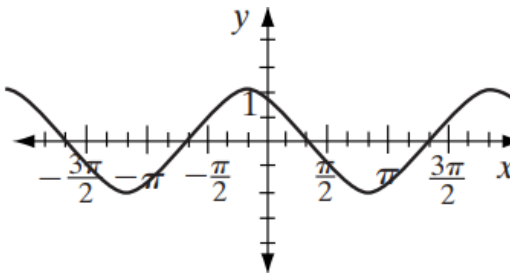
AMPLITUDE:

MIDLINE:

FLIPPED?:

FORMULA:

22.



PERIOD:

AMPLITUDE:

MIDLINE:

FLIPPED?:

FORMULA:

23. What is the maximum value of a sinusoid with amplitude 4 and has a minimum value of 5?

24. What is the period of the function $f(x) = 210 \sin(420x + 840)$?