5.6 Trigonometry short version
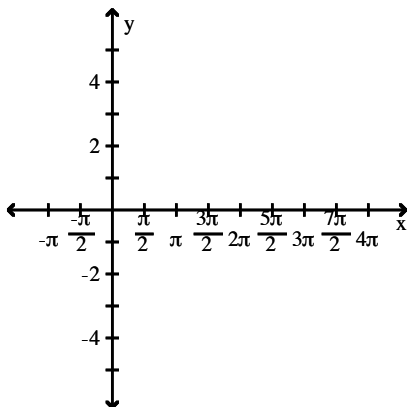
Name_____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

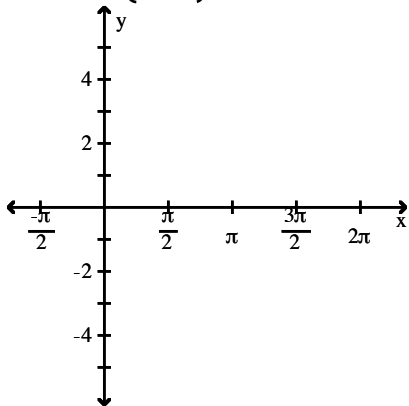**Graph the function.**

1) $y = -2 \tan \dfrac{x}{4}$
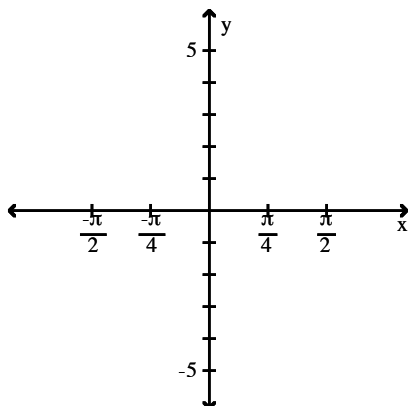
1) _____

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

2) _____

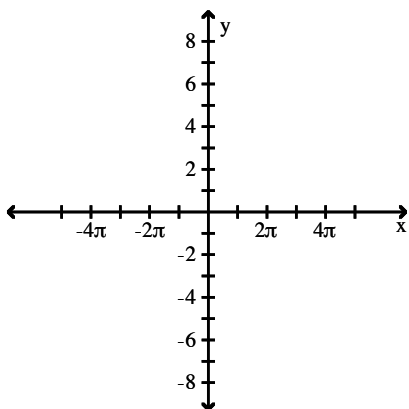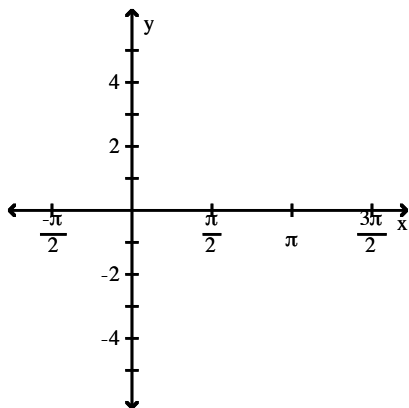3) $y = -2 - \tan(x + \frac{\pi}{4})$ 3) _____

4) $y = \sec\dfrac{x}{2}$ 4) _____

5) $y = \csc(2x - \frac{\pi}{4}) + 2$ 5) _____

Solve the problem.

6) For the equation $y = -\dfrac{1}{2}\sin(4x + 3\pi)$, identify (i) the amplitude, (ii) the phase shift, and (iii) the   6) _____

period.

2

Write the equation of a sine function that has the given characteristics.
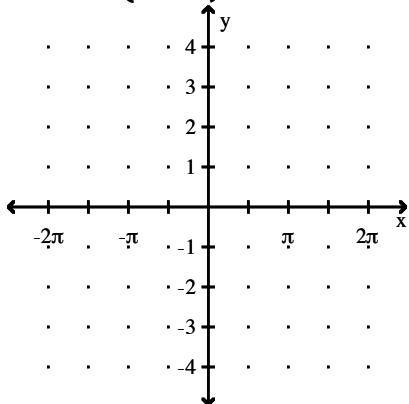
7) Amplitude: 4

Period: π

Phase Shift: $\dfrac{5}{2}$

7) _____

Graph the function.

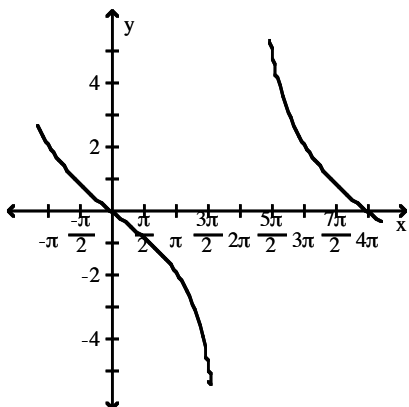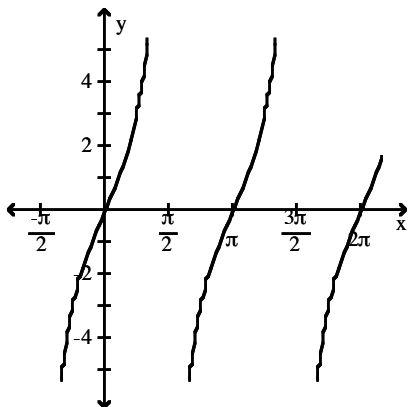8) $y = \dfrac{3}{5} \sec\left(3x - \dfrac{\pi}{3}\right)$

8) _____

1)

2)

3)
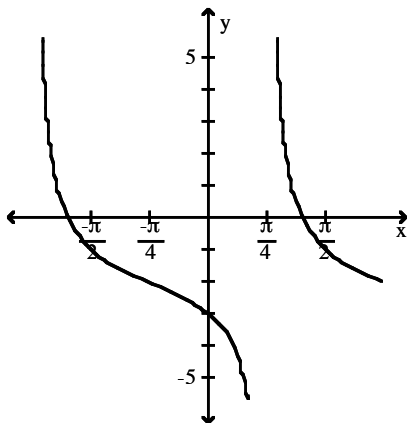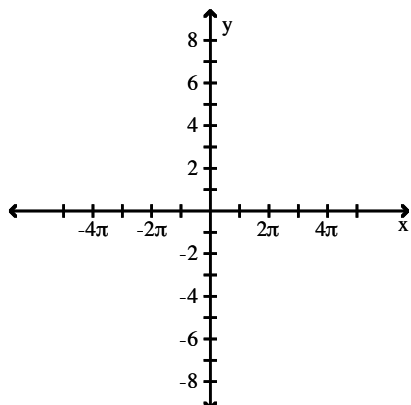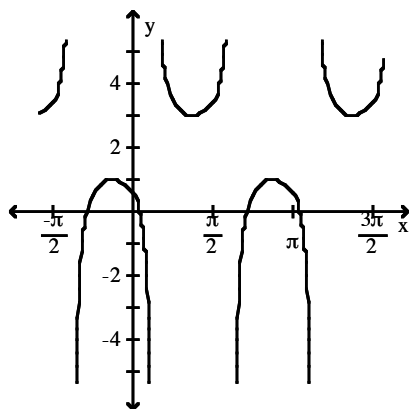
4)

5)

6) (i) $\dfrac{1}{2}$ (ii) $-\dfrac{3\pi}{4}$ (iii) $\dfrac{\pi}{2}$

7) $y = 4 \sin (2x - 5)$

8)