

Assignment 7--Writing Equations of Trigonometric Functions

Name _____

Write an equation for the function described with the following characteristics:

1. Sine Function

Answer: _____

- a. Up 3; left $\frac{\pi}{4}$; amplitude of 7; has a period of 8π

2. Cosine Function

Answer: _____

- a. Right $\frac{5\pi}{8}$; reflect across x axis; amplitude of $\frac{1}{8}$; has a period of $\frac{2\pi}{3}$

3. Tangent Function

Answer: _____

- a. Down 2; right $\frac{\pi}{3}$; stretch by 2; has a period of 6π

4. Cotangent Function

Answer: _____

- a. Up 5; left $\frac{3\pi}{4}$; reflect across the x axis; has a period of $\frac{\pi}{4}$

5. Secant Function

Answer: _____

- a. Down 9; left $\frac{\pi}{6}$; stretch by 5; has a period of 4π

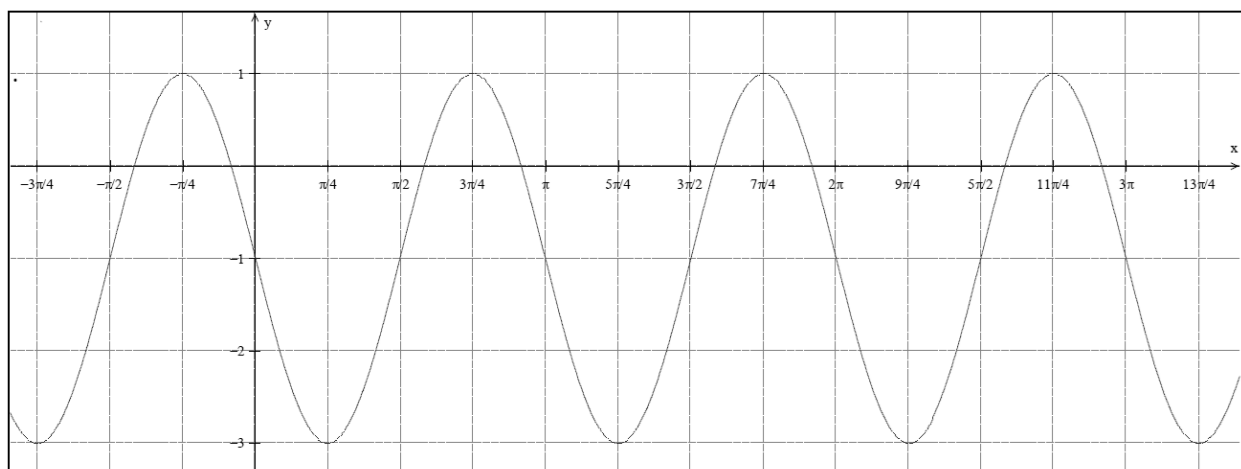
6. Cosecant Function

Answer: _____

- a. Right $\frac{7\pi}{11}$; reflect across the x axis; stretch by $\frac{2}{3}$; has a period of $\frac{\pi}{5}$

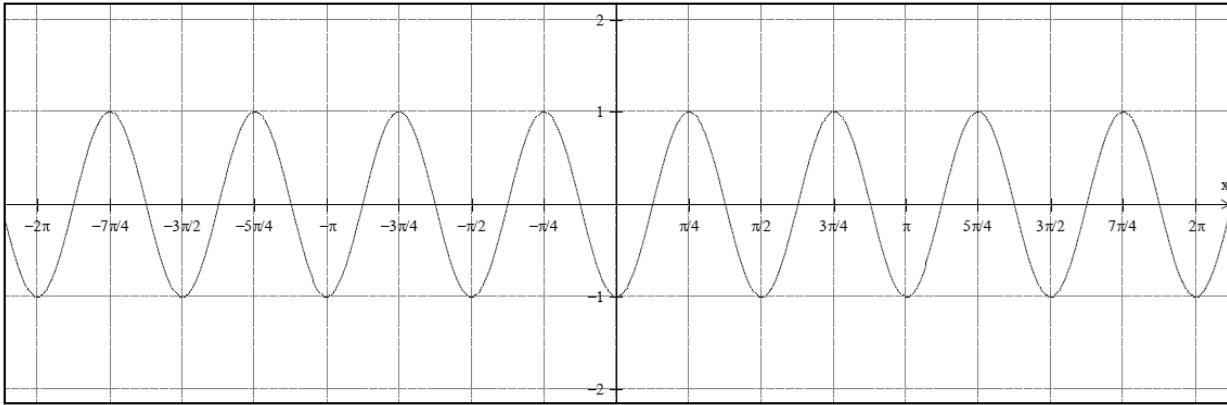
7. Sine Function

Answer: _____



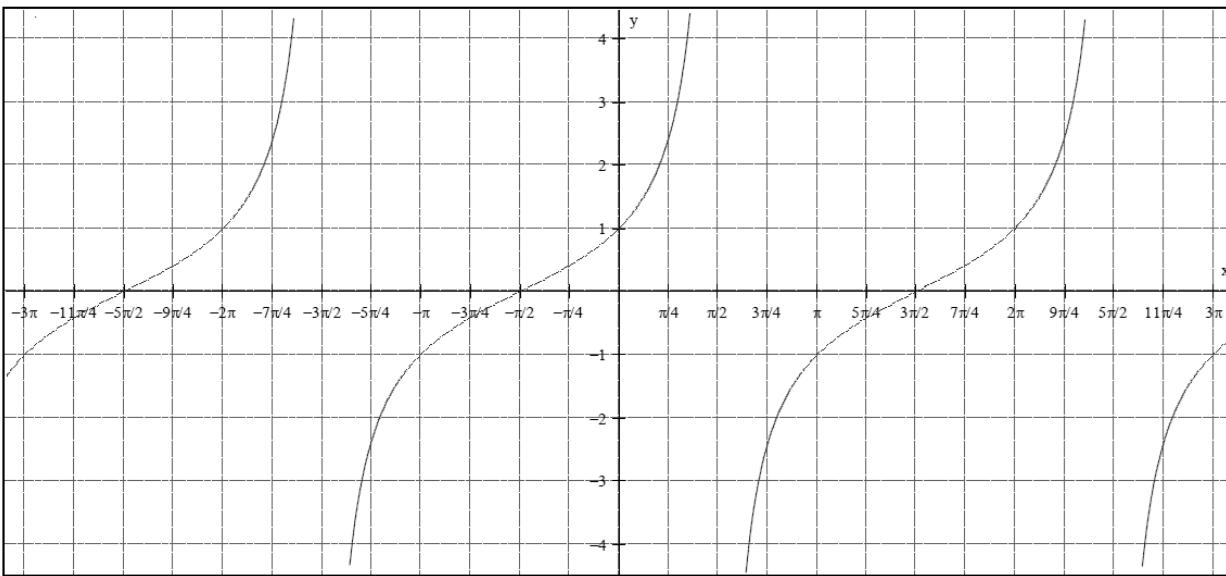
8. Cosine Function

Answer: _____



9. Tangent Function

Answer: _____



10. Cosecant Function

Answer: _____

Secant Function

Answer: _____

