

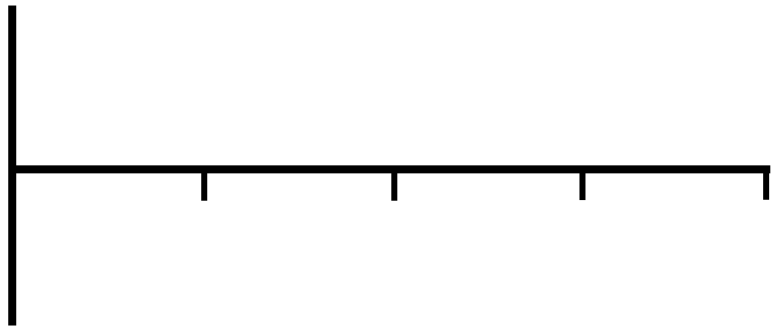
Graph each of the six trigonometric functions. Label both degrees and radians on the graph. List the domain and range of each function from the graph.

1. $y = \sin \theta$

- In which quadrants is sine positive? _____
- In which quadrants is sine negative? _____
- Where is the sine equal to zero? _____
- Where does sine reach its highest point? _____
- Where does sine reach its lowest point? _____
- What is the domain of sine? _____
- What is the range of sine? _____

Sketch a sine curve. Label the x and y axes!

$$y = \sin \theta$$



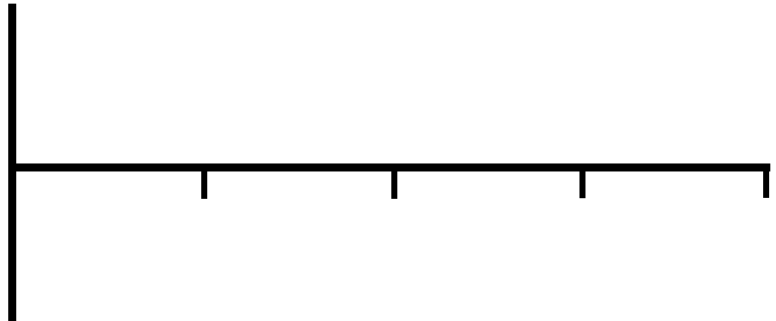
Helpful hints for remembering key information about the sine graph:

2. $y = \csc \theta$

- In which quadrants is cosecant positive? _____
- In which quadrants is cosecant negative? _____
- Where is the cosecant undefined? _____
- What is the domain of cosecant? _____
- What is the range of cosecant? _____

Sketch a cosecant curve. Label the x and y axes!

$$y = \csc \theta$$



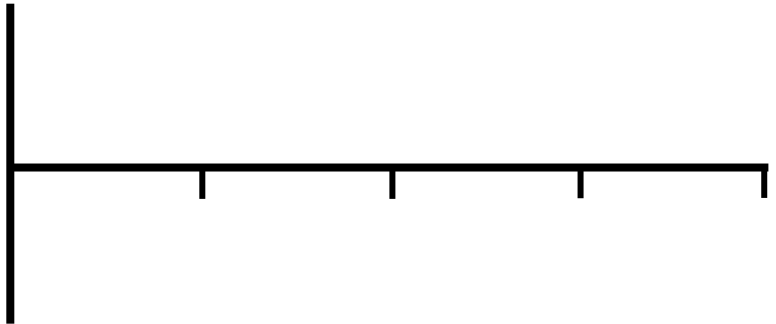
Helpful hints for remembering key information about the cosecant graph:

3. $y = \cos \theta$

- In which quadrants is cosine positive? _____
- In which quadrants is cosine negative? _____
- Where is the cosine equal to zero? _____
- Where does cosine reach its highest point? _____
- Where does cosine reach its lowest point? _____
- What is the domain of cosine? _____
- What is the range of cosine? _____

Sketch a cosine curve. Label the x and y axes!

$$y = \cos \theta$$



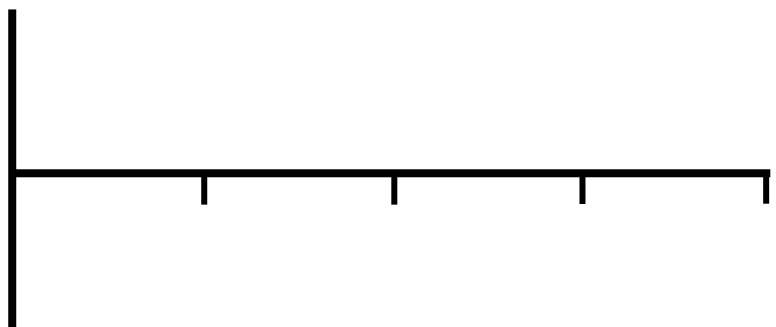
Helpful hints for remembering key information about the cosine graph:

4. $y = \sec \theta$

- In which quadrants is secant positive? _____
- In which quadrants is secant negative? _____
- Where is the secant undefined? _____
- What is the domain of secant? _____
- What is the range of secant? _____

Sketch a secant curve. Label the x and y axes!

$$y = \sec \theta$$



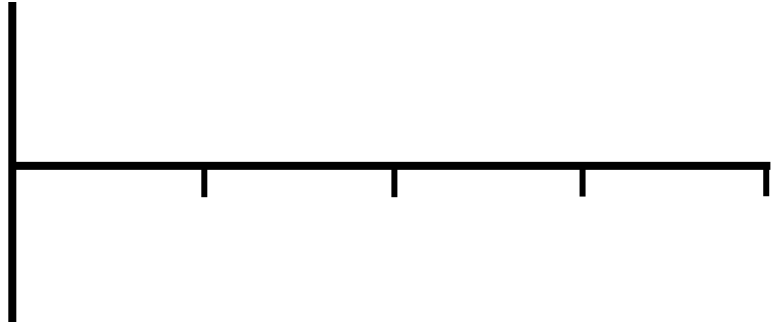
Helpful hints for remembering key information about the secant graph:

5. $y = \tan \theta$

- In which quadrants is tangent positive? _____
- In which quadrants is tangent negative? _____
- Where is the tangent undefined? _____
- What is the domain of tangent? _____
- What is the range of tangent? _____

Sketch a tangent curve. Label the x and y axes!

$$y = \tan \theta$$



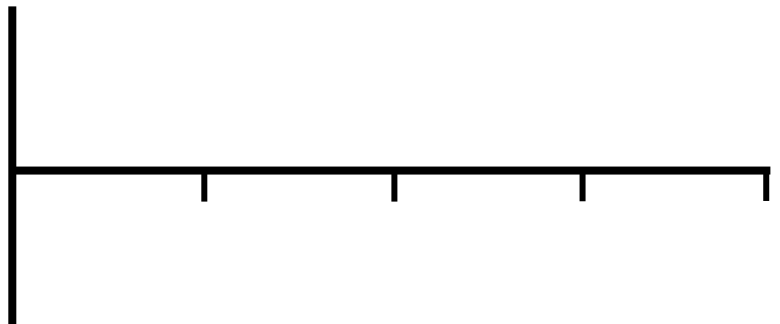
Helpful hints for remembering key information about the tangent graph:

6. $y = \cot \theta$

- In which quadrants is cotangent positive? _____
- In which quadrants is cotangent negative? _____
- Where is the cotangent undefined? _____
- What is the domain of cotangent? _____
- What is the range of cotangent? _____

Sketch a cotangent curve. Label the x and y axes!

$$y = \cot \theta$$



Helpful hints for remembering key information about the cotangent graph: