

**UNIT 6 WORKSHEET 23**  
**GRAPHING COTANGENT FUNCTIONS**

**COTANGENT FUNCTIONS**

**Standard Form:**  $y = a \cot(bx - c) + d$

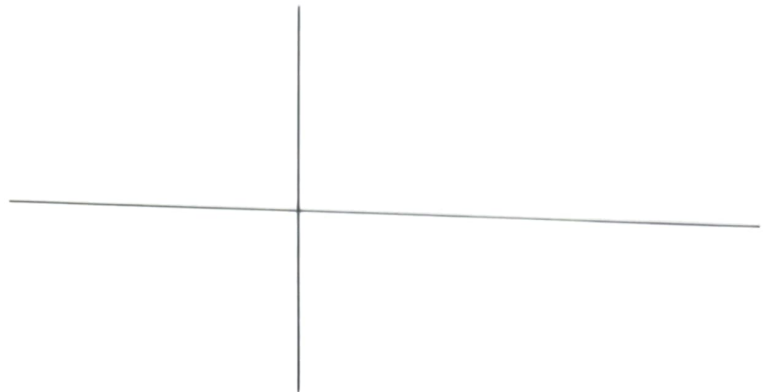
**Amplitude:**

**Period:**

**Phase Shift:**

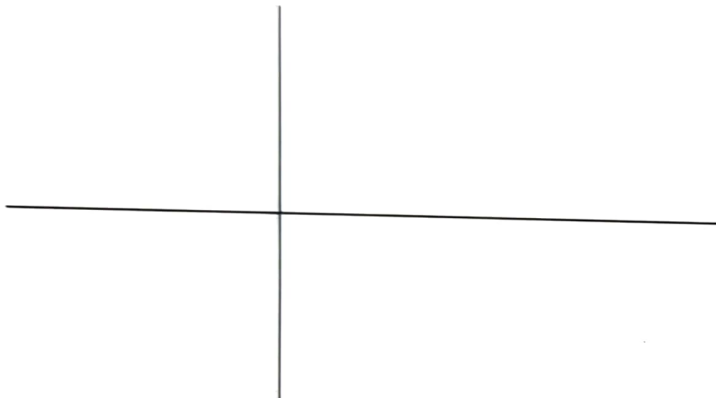
**Initial Interval:**

**Parent Function**  $y = \cot x$



**Practice Problems**

$$y = \cot\left(\frac{x}{3}\right)$$



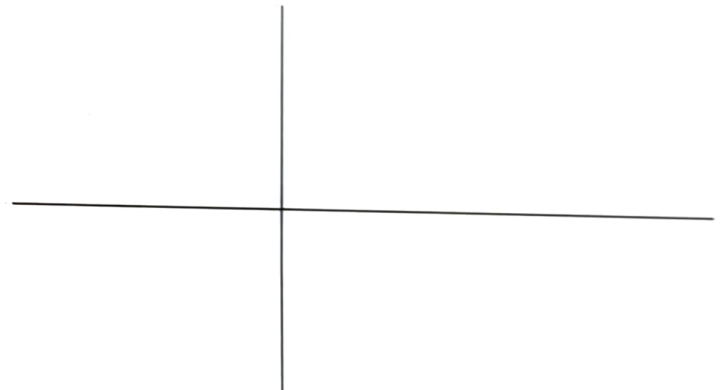
**Amplitude:**

**Period:**

**Phase Shift:**

**Initial Interval:**

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



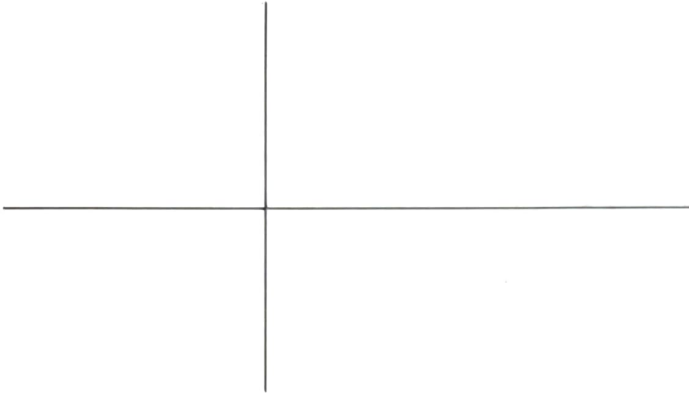
**Amplitude:**

**Period:**

**Phase Shift:**

**Initial Interval:**

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



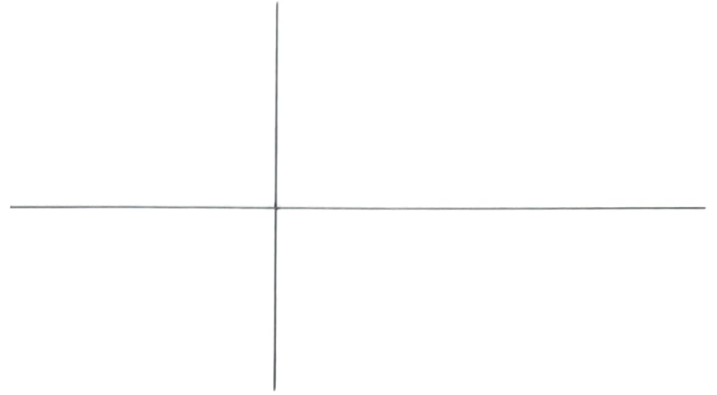
**Amplitude:**

**Period:**

**Phase Shift:**

**Initial Interval:**

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



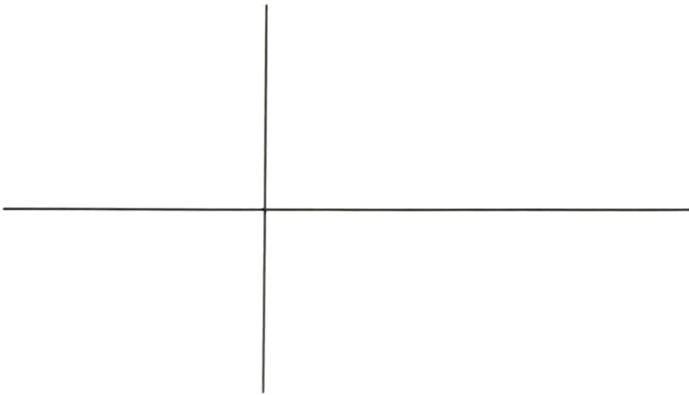
**Amplitude:**

**Period:**

**Phase Shift:**

**Initial Interval:**

$$y = -\cot(2x + \pi)$$



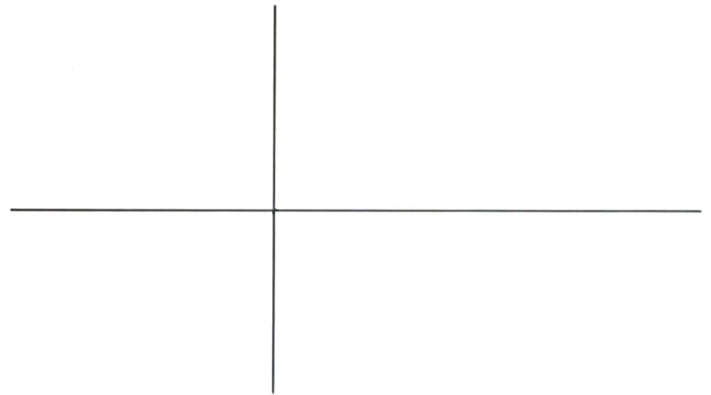
**Amplitude:**

**Period:**

**Phase Shift:**

**Initial Interval:**

$$y = 2 \cot \frac{2x}{3}$$



**Amplitude:**

**Period:**

**Phase Shift:**

**Initial Interval:**