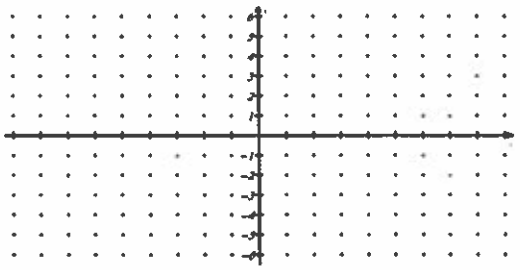
Station One: Sine and Cosine

Name _____

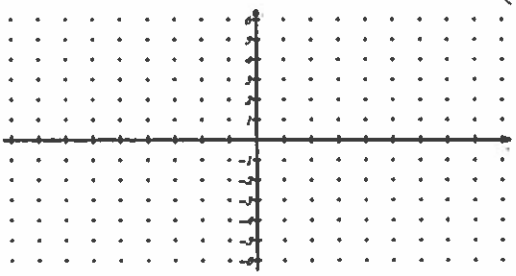
Date: _____ Block:

1. Graph the function: $y = 3\sin(2x - \pi) + 1$



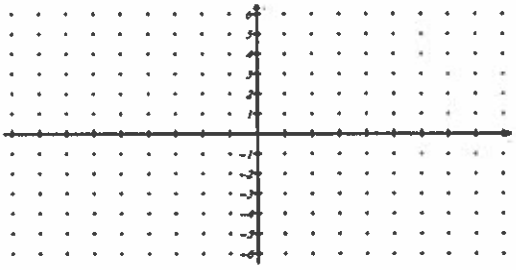
Amplitude: _____
Period: _____
Unit: _____
Phase Shift: _____
Vertical Shift: _____
Domain: _____
Range: _____

2. Graph the function: $f(x) = -2\cos\left(\frac{x}{2} + \frac{3\pi}{2}\right) + 4$



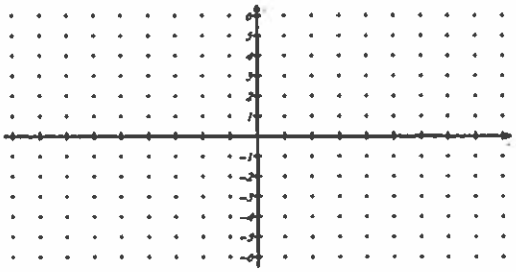
Amplitude: _____
Period: _____
Unit: _____
Phase Shift: _____
Vertical Shift: _____
Domain: _____
Range: _____

3. Graph the function: $k(b) = \cos(4b) - 3$



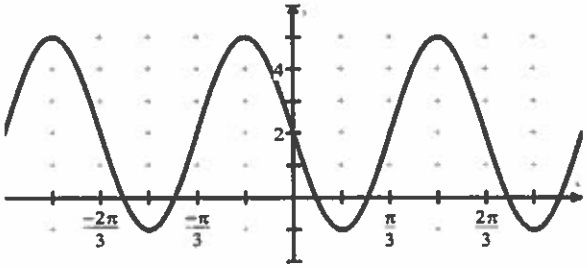
Amplitude: _____
Period: _____
Unit: _____
Phase Shift: _____
Vertical Shift: _____
Domain: _____
Range: _____

4. Graph the function: $y = -2\sin\left(x - \frac{\pi}{4}\right) - 3$



Amplitude: _____
Period: _____
Unit: _____
Phase Shift: _____
Vertical Shift: _____
Domain: _____
Range: _____

5. Write three equations for the graph:

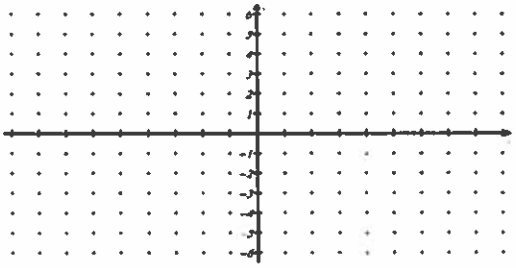


Station Three: Tangent and Cotangent

Name _____

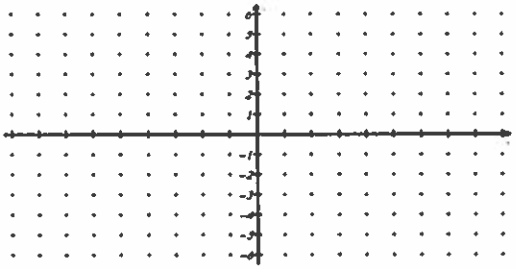
Date: _____ Block:

1. Graph the function: $y = 2\tan(x - \pi) - 1$



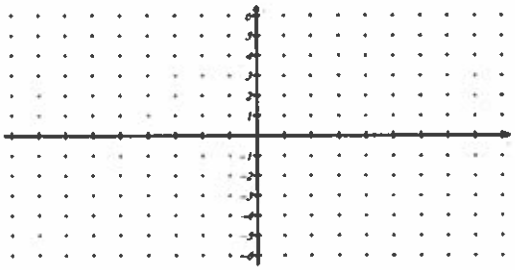
Amplitude: _____
Period: _____
Unit: _____
Phase Shift: _____
Vertical Shift: _____
Domain: _____
Range: _____

2. Graph the function: $x(t) = -\tan(2x + 2\pi)$



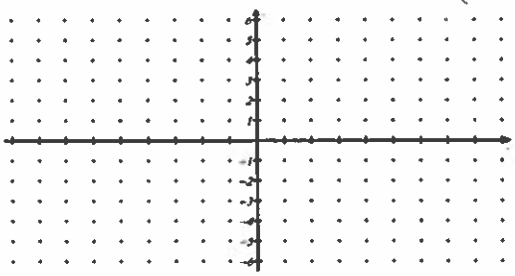
Amplitude: _____
Period: _____
Unit: _____
Phase Shift: _____
Vertical Shift: _____
Domain: _____
Range: _____

3. Graph the function: $y = 3\cot\left(x - \frac{3\pi}{4}\right) + 2$



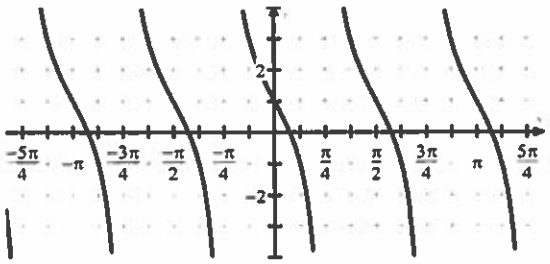
Amplitude: _____
Period: _____
Unit: _____
Phase Shift: _____
Vertical Shift: _____
Domain: _____
Range: _____

4. Graph the function: $y = -2\cot\left(2x - \frac{\pi}{4}\right) + 1$



Amplitude: _____
Period: _____
Unit: _____
Phase Shift: _____
Vertical Shift: _____
Domain: _____
Range: _____

5. Write three equations for the graph:

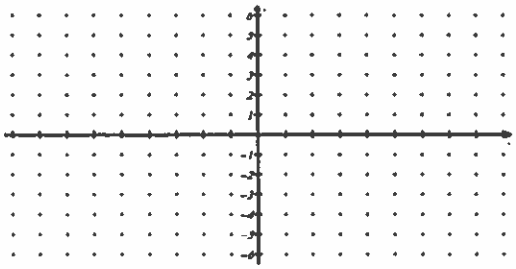


Station Five: Cosecant and Secant

Name _____

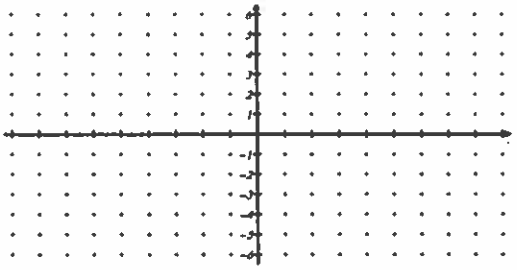
Date: _____ Block:

1. Graph the function: $y = 3\sec(2x - 3\pi) + 1$



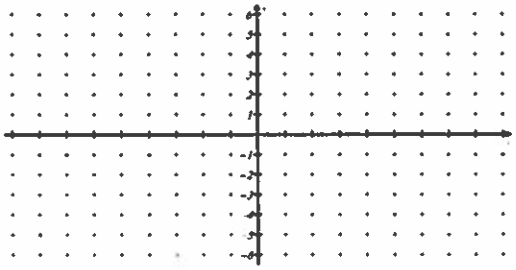
Amplitude: _____
Period: _____
Unit: _____
Phase Shift: _____
Vertical Shift: _____
Domain: _____
Range: _____

2. Graph the function: $f(\theta) = -2\csc\left(\frac{\theta}{2} + \pi\right) + 3$



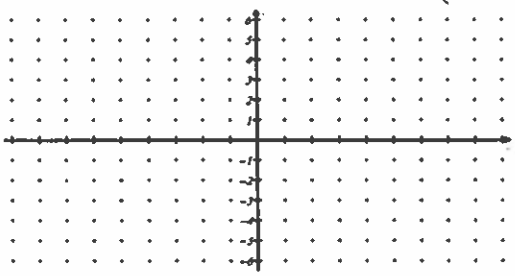
Amplitude: _____
Period: _____
Unit: _____
Phase Shift: _____
Vertical Shift: _____
Domain: _____
Range: _____

3. Graph the function: $k(b) = 4\csc(2b) + 1$



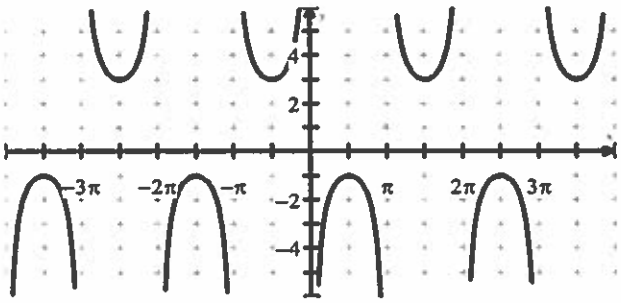
Amplitude: _____
Period: _____
Unit: _____
Phase Shift: _____
Vertical Shift: _____
Domain: _____
Range: _____

4. Graph the function: $y = -\sec\left(x - \frac{\pi}{2}\right) + 2$



Amplitude: _____
Period: _____
Unit: _____
Phase Shift: _____
Vertical Shift: _____
Domain: _____
Range: _____

5. Write three equations for the graph:



Graphing Review

Name_____
Date: _____ Block: _____

Write an equation that has the following graph.