

Advanced Math

4-6

(Day 2)

Graphs of Cotangent and Cosecant Functions

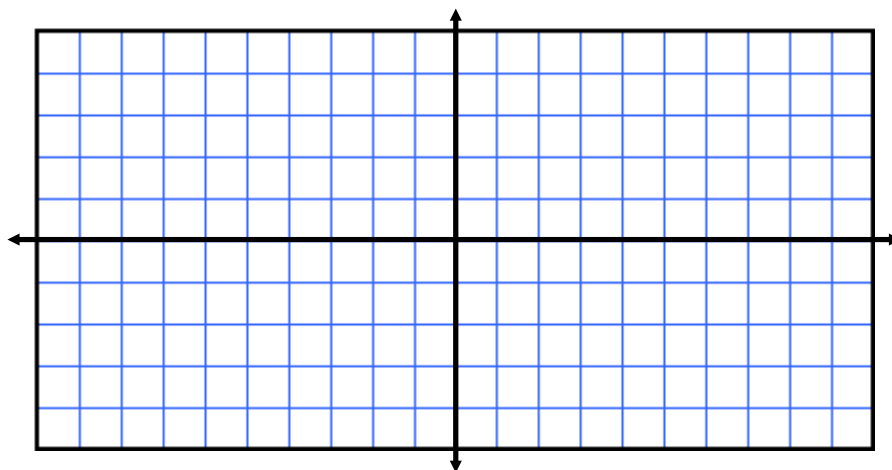
Graph $y = \cot x$

Domain:

Range:

Period:

Asymptote:



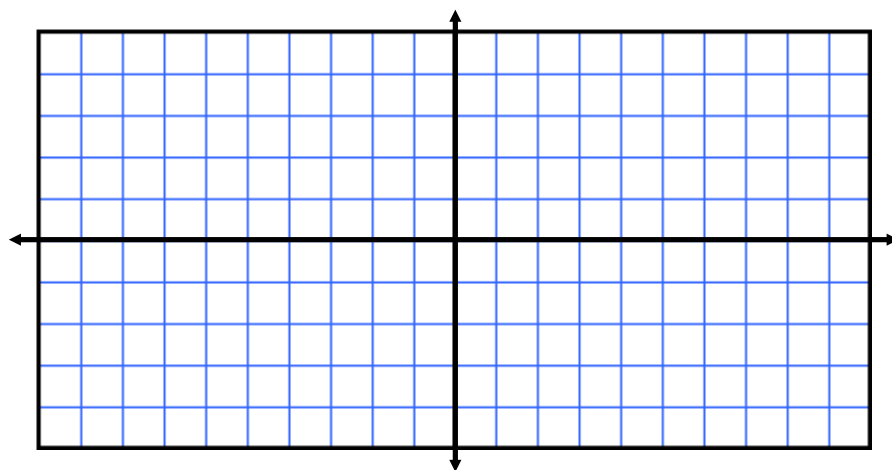
Graph $y = \csc x$

Domain:

Range:

Period:

Asymptotes:



Assignment:

Graph each of the following:

1) $f(x) = -2 \sec x$

2) $g(x) = \cot\left(x + \frac{\pi}{4}\right)$

3) $h(x) = \csc(2x)$

4) $j(x) = -\frac{\pi}{2} \cot\left(\frac{1}{2}x - \frac{\pi}{8}\right)$

5) $k(x) = \frac{2}{3} \sec\left(\frac{2}{3}x + \frac{2\pi}{3}\right)$