

Advanced Math

4-6

(Day 1)

Graphs of Tangent and Secant Functions

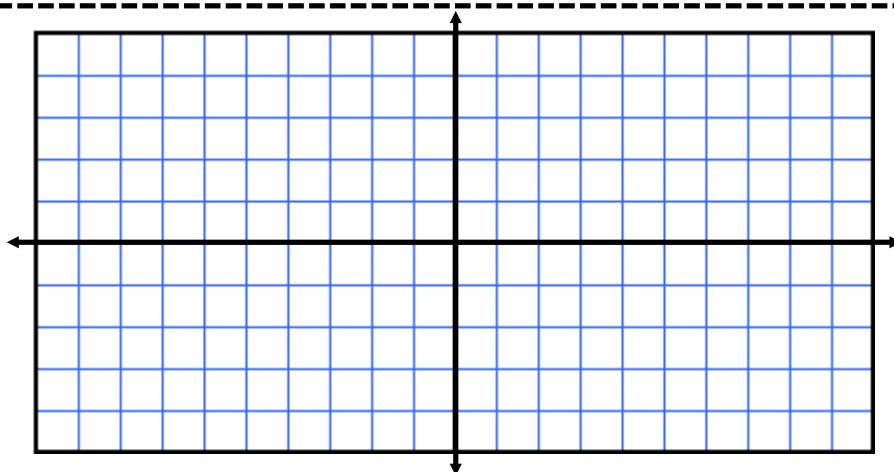
Graph $y = \tan x$

Domain:

Range:

Period:

Asymptote:



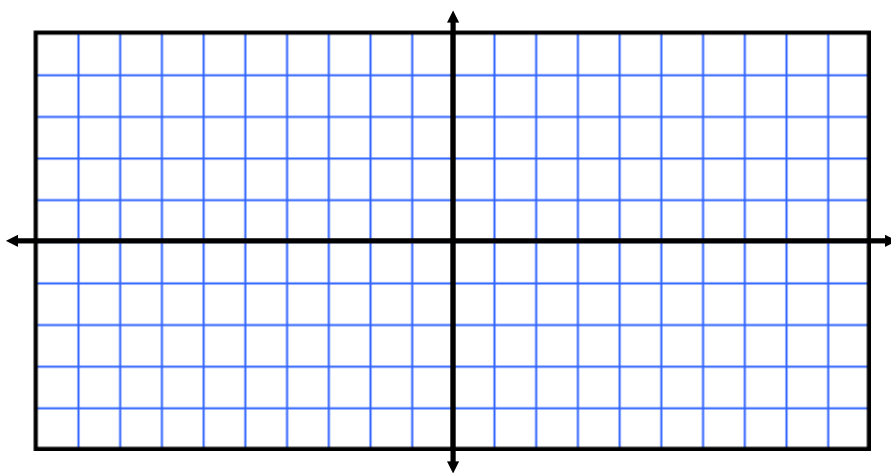
Graph $y = \sec x$

Domain:

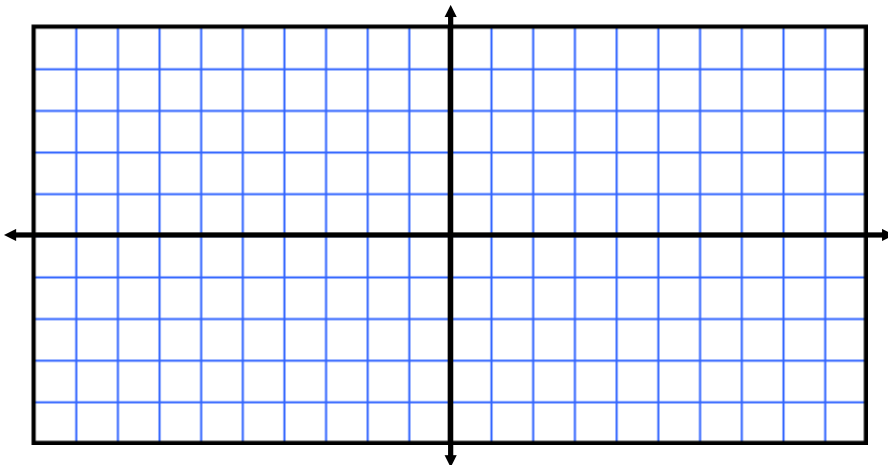
Range:

Period:

Asymptotes:



graph: $y = 2\tan(x + \frac{\pi}{2})$



Assignment:

Graph each of the following.

1) $f(x) = 6\sin\left(\frac{\pi x}{5}\right) + 1$

2) $g(x) = -2\cos\left(\frac{1}{2}x + \frac{\pi}{2}\right)$

3) $h(x) = \tan x$

4) $f(x) = -3\sin\left(3x - \frac{\pi}{2}\right)$

5) $f(x) = \tan\left(\frac{1}{2}x + \frac{\pi}{6}\right)$

6) $f(x) = 2\sec x$