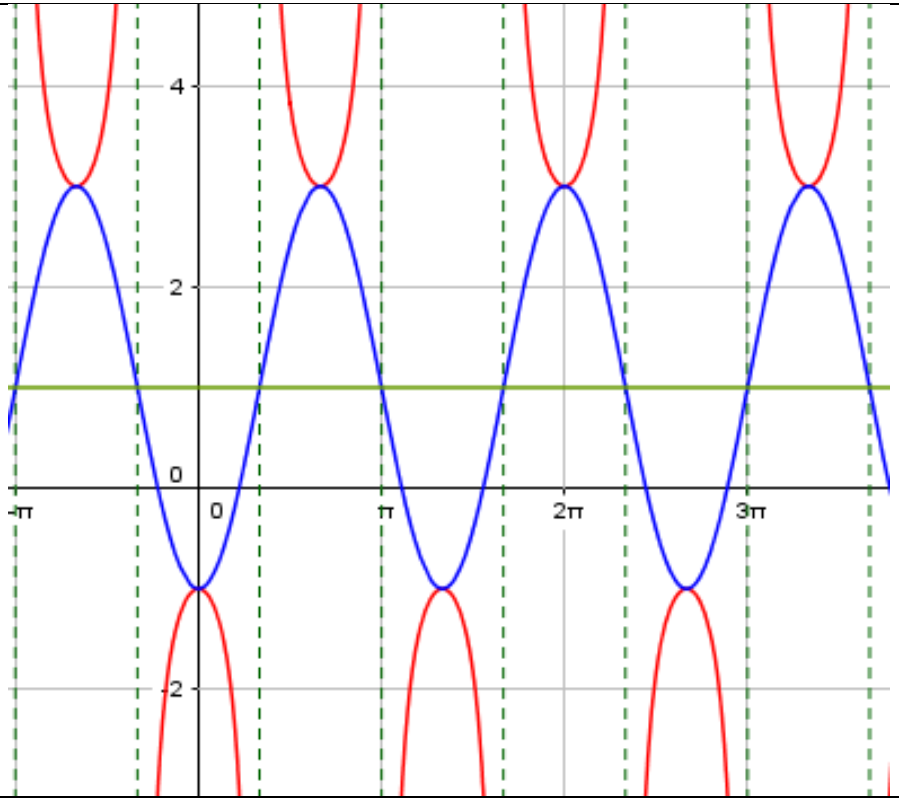
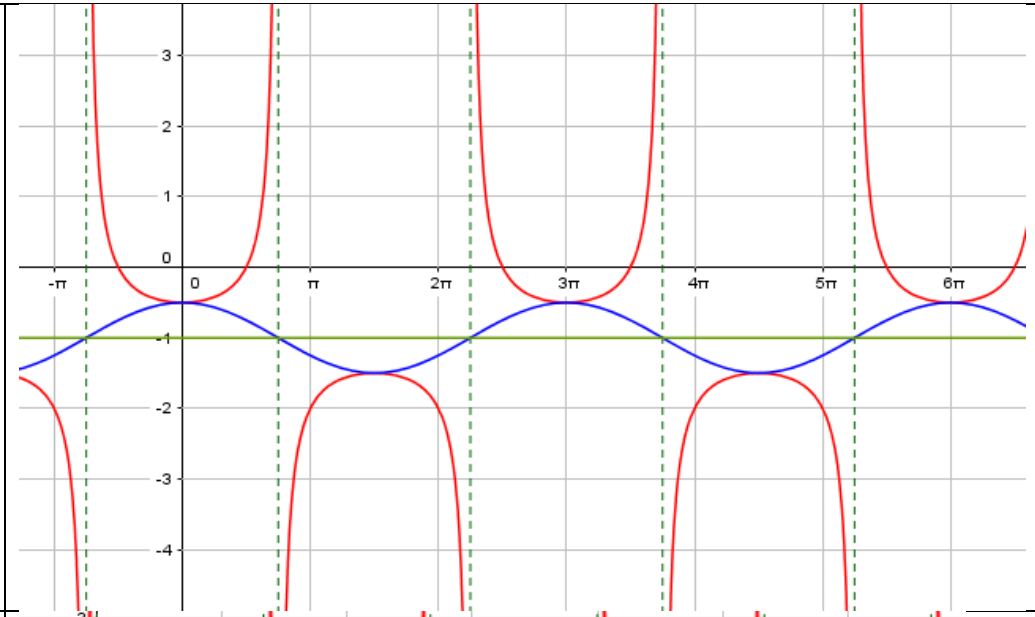
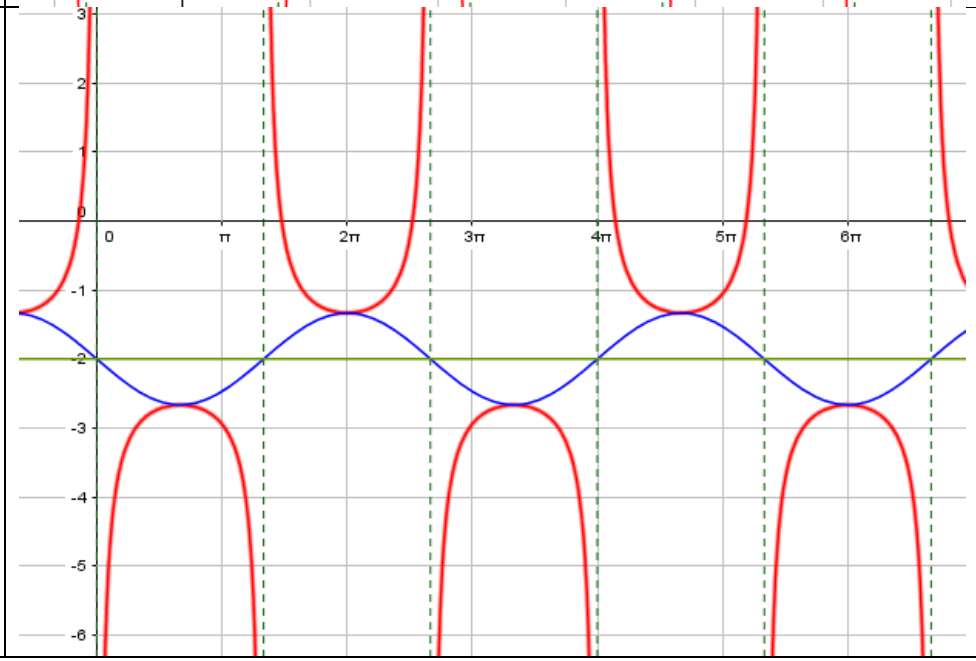
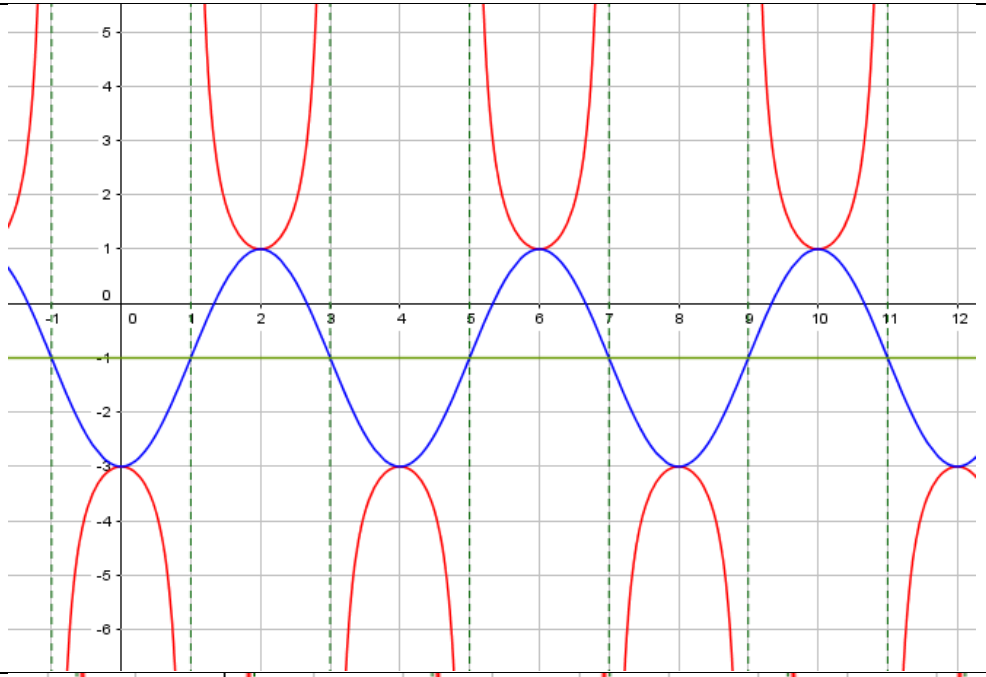
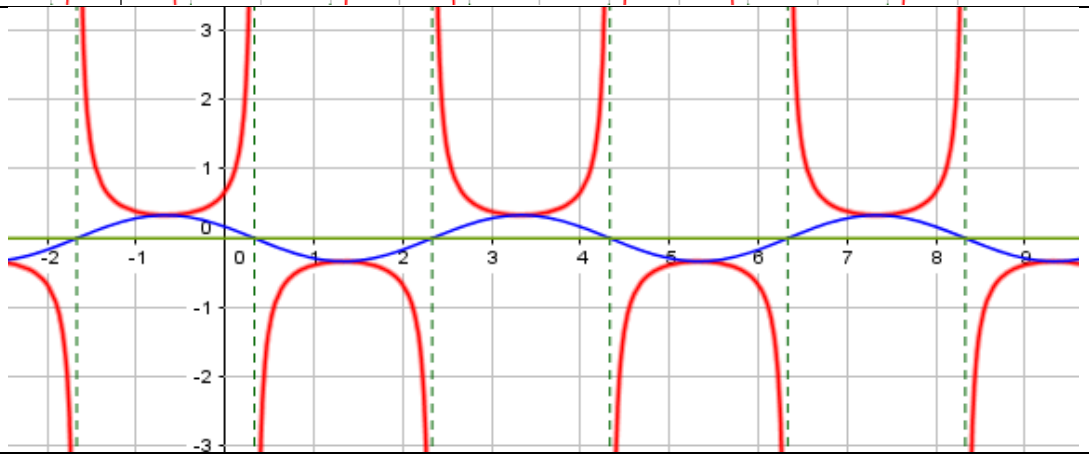
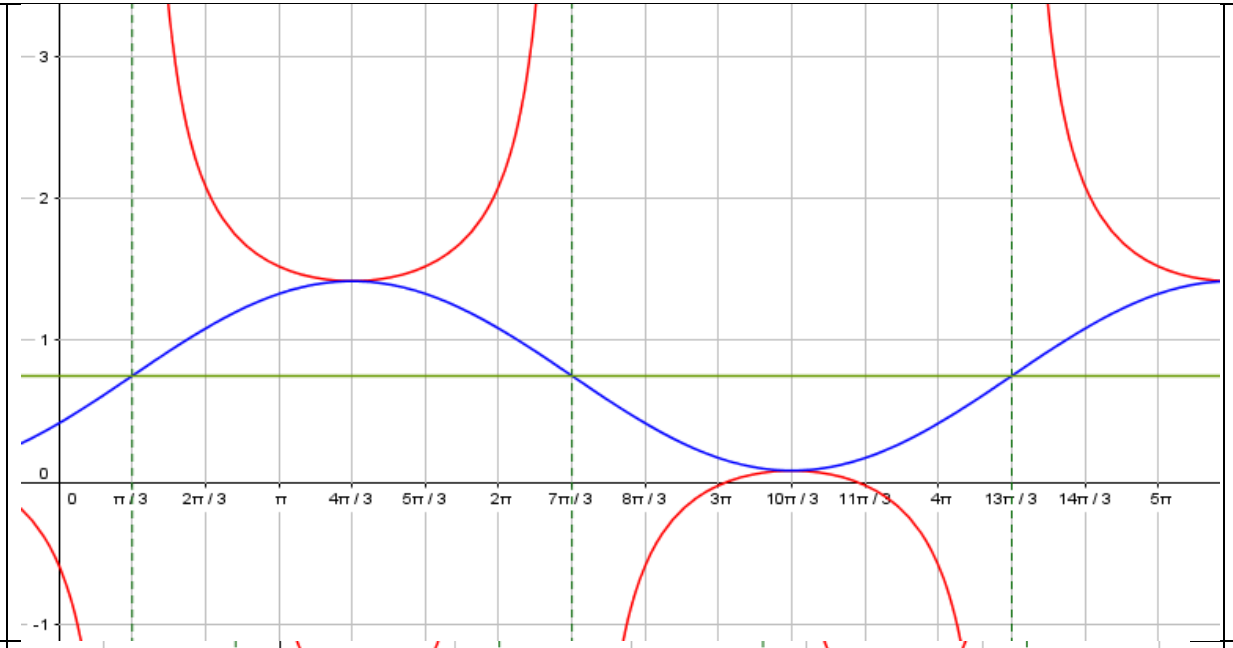
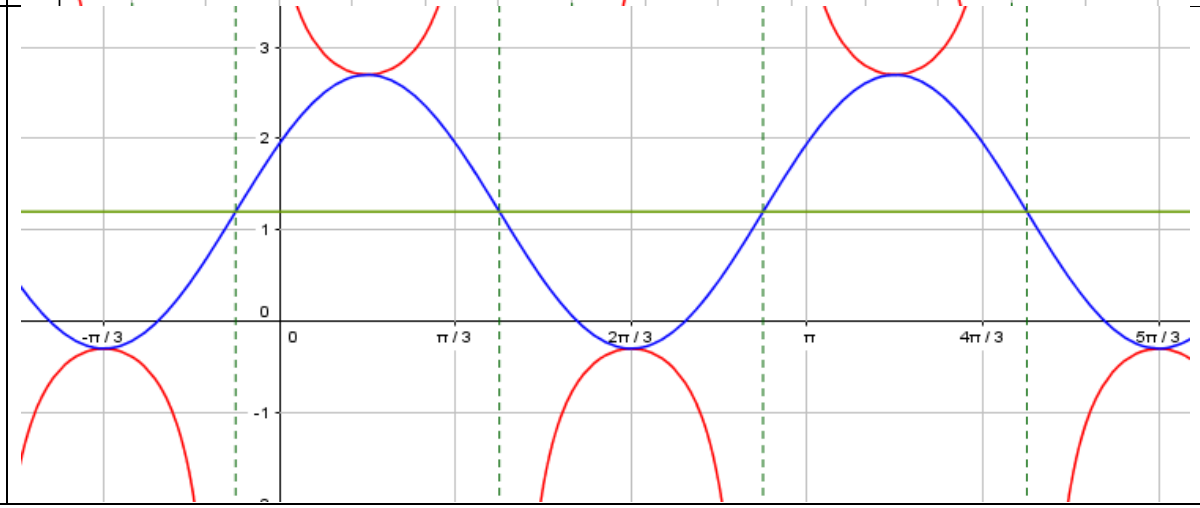
Graph the following secx functions. Identify the periods of the functions, the range, the vertical asymptotes.

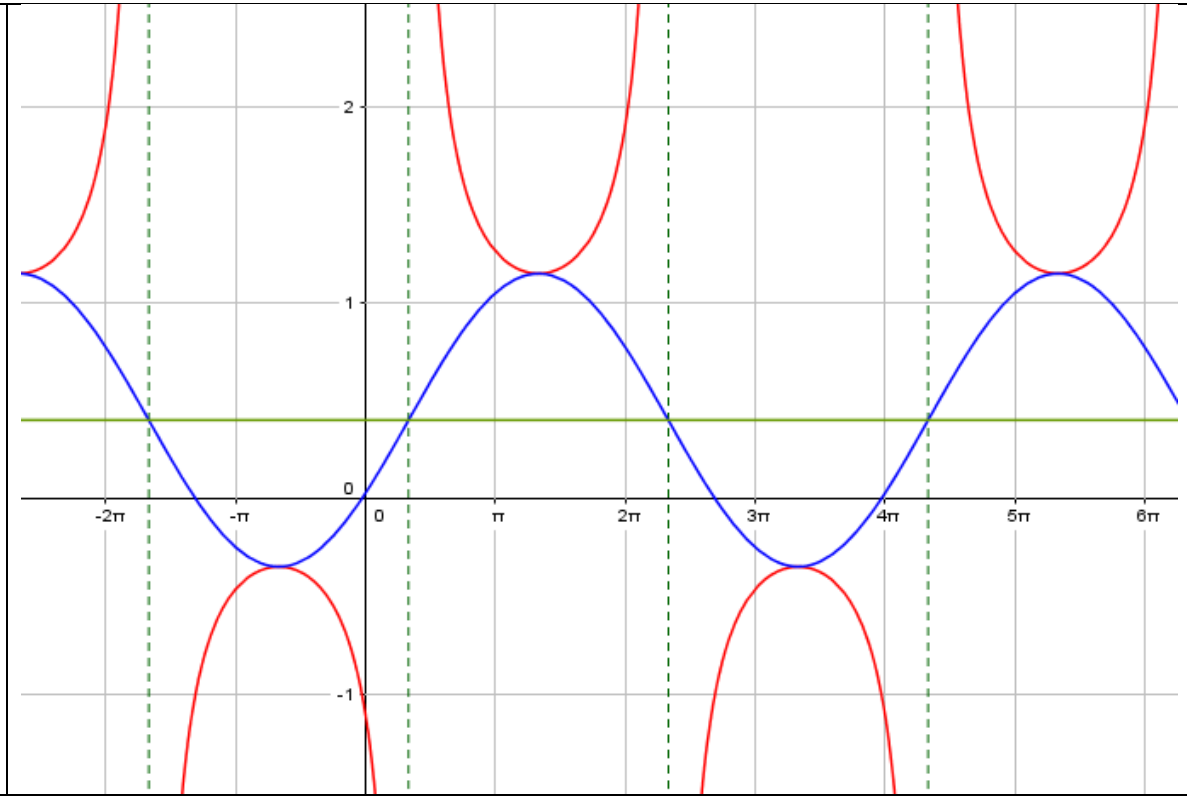
$f(x)=2\sec\left(\frac{3}{2}x-3\pi\right)+1$		period : $\frac{4\pi}{3}$ range: $(-\infty,-1]\cup[3,\infty)$ V.A.s : $x=\frac{7\pi}{3}+\frac{2\pi k}{3}$

$f(x)=-\frac{1}{2}\sec\left(\frac{2}{3}x-\pi\right)-1$		period : 3π range: $(-\infty,-\frac{3}{2}]\cup[-\frac{1}{2},\infty)$ V.A.s : $x=\frac{9\pi}{4}+\frac{3\pi k}{2}$
$f(x)=\frac{2}{3}\sec\left(\frac{3}{4}x-\frac{3}{2}\pi\right)-2$		period : $\frac{8\pi}{3}$ range: $(-\infty,-\frac{8}{3}]\cup[-\frac{4}{3},\infty)$ V.A.s : $x=\frac{9\pi}{4}+\frac{3\pi k}{2}$

$f(x)=2\sec\left(\frac{\pi}{2}x-\pi\right)-1$		period : 4 range: $(-\infty,-3]\cup[1,\infty)$ V.A.s : $x=3+2k$
$f(x)=\frac{1}{3}\sec\left(\frac{\pi}{2}x+\frac{\pi}{3}\right)$		period : 4 range: $(-\infty,-\frac{1}{3}]\cup[\frac{1}{3},\infty)$ V.A.s : $x=\frac{1}{3}+2k$

$f(x)=-\frac{2}{3}\sec\left(\frac{1}{2}x+\frac{\pi}{3}\right)+\frac{3}{4}$		period : 4π range: $(-\infty,\frac{1}{12}]\cup[\frac{17}{12},\infty)$ V.A.s : $x=\frac{\pi}{3}+2\pi k$
$f(x)=-\frac{3}{2}\sec\left(2x+\frac{2\pi}{3}\right)+\frac{6}{5}$		period : π range: $(-\infty,-\frac{3}{10}]\cup[\frac{27}{10},\infty)$ V.A.s : $x=-\frac{\pi}{12}+\frac{\pi k}{2}$

$f(x) = -\frac{3}{4}\sec\left(\frac{x}{2} + \frac{\pi}{3}\right) + \frac{2}{5}$



period : 4π

range:

$(-\infty, -\frac{7}{20}] \cup [\frac{23}{20}, \infty)$

V.A.s : $x = \frac{\pi}{3} + 2\pi k$