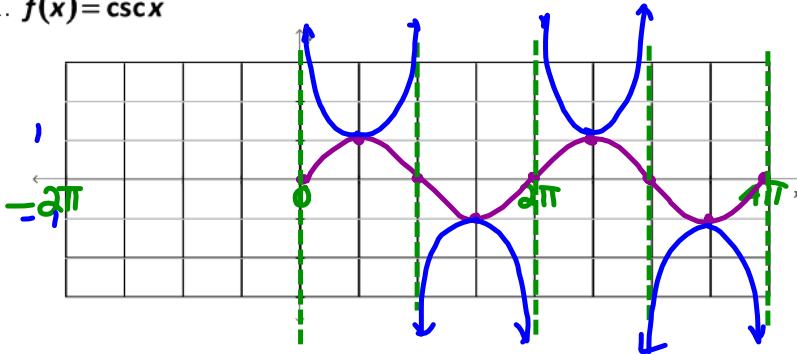


Trig Graphing Examples

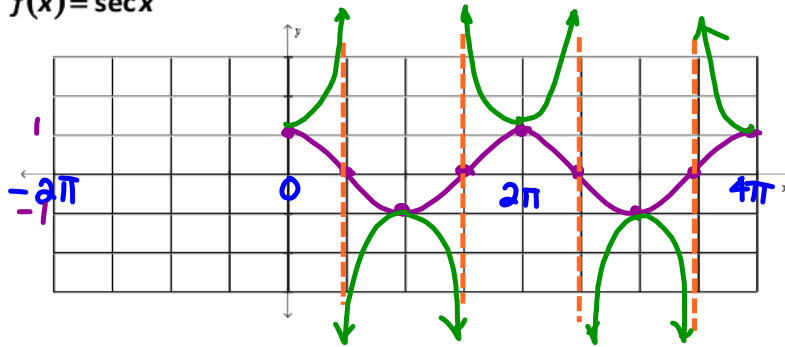
$f(x) = \sin x$   
 1.  $f(x) = \csc x$



I, MAX, I, MIN, I

$|a| = |1| = 1$   
 Period =  $\frac{2\pi}{1} = 2\pi$   
 Frequency =  $\frac{1}{2\pi}$   
 Vertical Shift:  $\emptyset$   
 Phase shift:  $\emptyset$   
 SP: 0 EP:  $2\pi$

$f(x) = \cos x$   
 2.  $f(x) = \sec x$

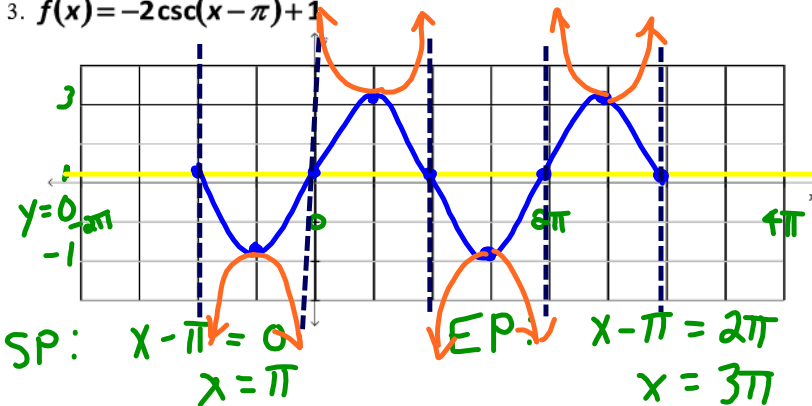


MAX, I, MIN, I, MAX

$|a| = |1| = 1$   
 Period =  $\frac{2\pi}{1} = 2\pi$   
 Frequency =  $\frac{1}{2\pi}$   
 Vertical Shift:  $\emptyset$   
 Phase shift:  $\emptyset$   
 SP: 0 EP:  $2\pi$

$f(x) = -2\sin(x - \pi) + 1$

3.  $f(x) = -2\csc(x - \pi) + 1$



$|a| = |-2| = 2$   
 Period =  $\frac{2\pi}{1} = 2\pi$   
 Frequency =  $\frac{1}{2\pi}$   
 Vertical Shift:  $\uparrow 1$   
 Phase shift:  $\frac{-\pi}{1} \rightarrow \pi$