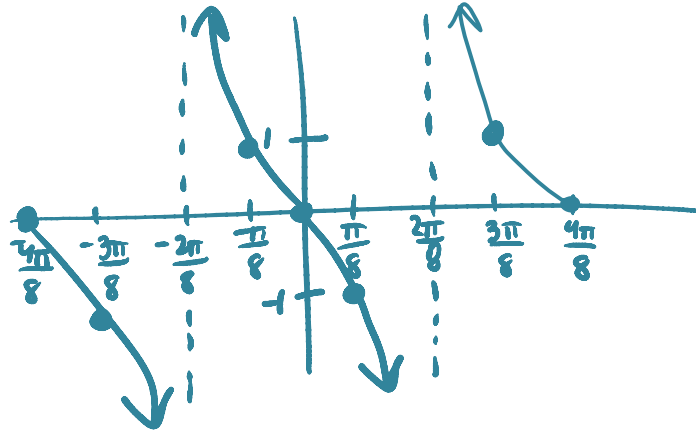


Graph TWO periods of each of the following graphs. Show vertical asymptotes.

1)  $y = -\tan 2x$   
 vert. refl.

$B=2$   
 $Per = \frac{\pi}{2}$

Crit pts every  
 $\frac{\pi}{2} \cdot \frac{1}{4} = \frac{\pi}{8}$

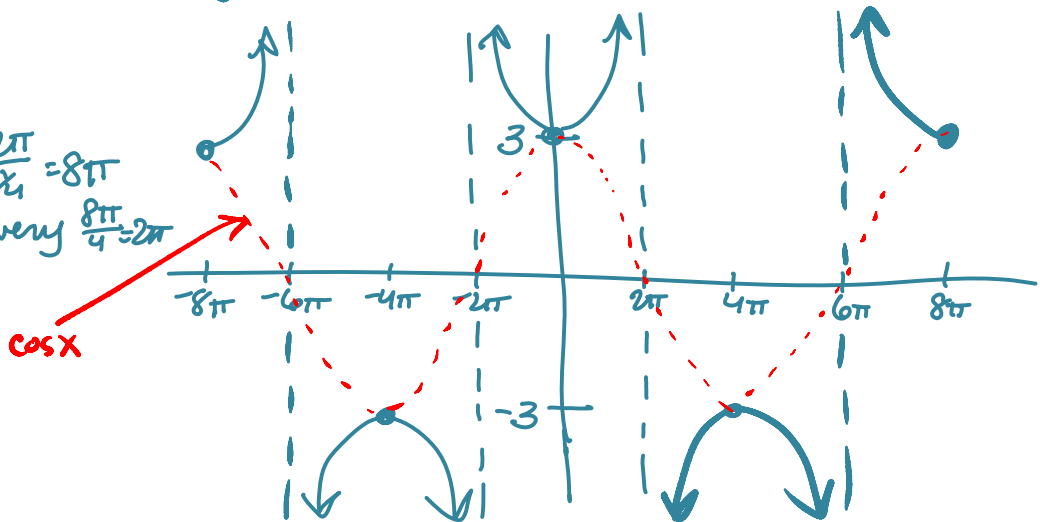


2)  $y = 3 \sec \frac{x}{4}$

$A=3$

$B = \frac{1}{4}$   $Per = \frac{2\pi}{\frac{1}{4}} = 8\pi$

Crit pts every  $\frac{8\pi}{4} = 2\pi$

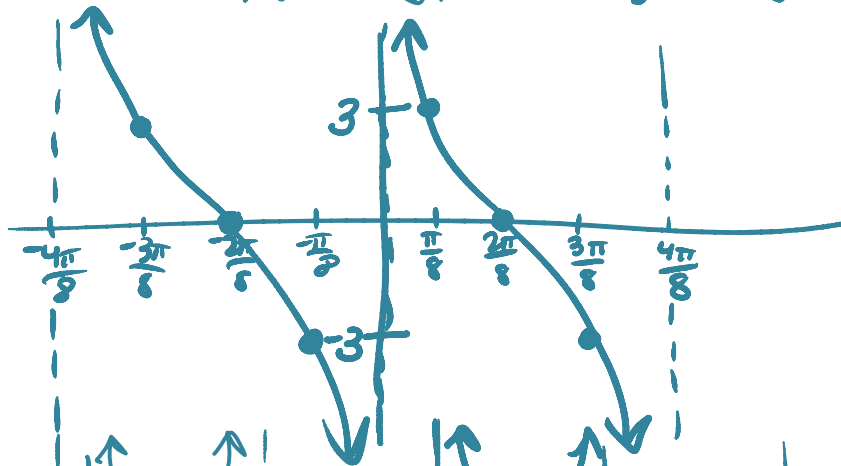


3)  $y = 3 \cot 2x$

$A=3$

$B=2$   
 $Per = \frac{\pi}{2}$

Crit pts every  
 $\frac{\pi}{8}$



4)  $y = 4 \csc(2x) + 1$

$A=4$  up 1

$B=2$

$Per = \frac{2\pi}{2} = \pi$

Crit pts every  $\frac{\pi}{4}$

