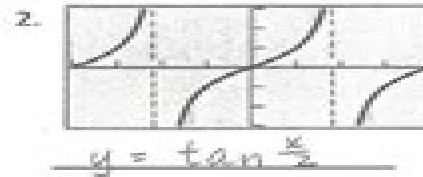
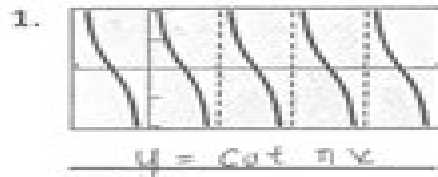


name Key  
 Period \_\_\_\_\_  
 Date \_\_\_\_\_

## Graphing Tan and Cotangent Functions Homework

A. Write the equation below its graph.

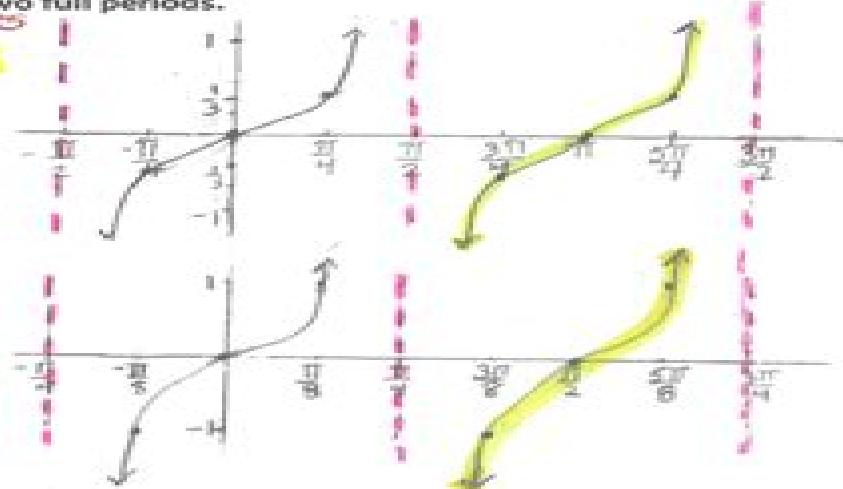
$y = \tan 3x$        $y = \tan \frac{\pi}{2}$        $y = \cot \pi x$



B. Sketch the graph of each function. Include two full periods.

1.  $y = \frac{1}{3} \tan x$   
 Period:  $\frac{\pi}{B} = \frac{\pi}{1/3} = \pi$   
 Asymptotes:  $-\frac{\pi}{2}, \frac{\pi}{2}$   
 x-intercept (0,0)  
 $\frac{1}{4}$  point:  $(-\frac{\pi}{4}, -\frac{1}{3})$   
 $\frac{3}{4}$  point:  $(\frac{\pi}{4}, \frac{1}{3})$

Asymptotes  
 $-\frac{\pi}{2} < x < \frac{\pi}{2}$



2.  $y = \tan 2x$   
 Period:  $\frac{\pi}{B} = \frac{\pi}{2}$   
 Asymptotes:  $-\frac{\pi}{2}, \frac{\pi}{2}$   
 x-intercept (0,0)  
 $\frac{1}{4}$  point:  $(-\frac{\pi}{4}, -1)$   
 $\frac{3}{4}$  point:  $(\frac{\pi}{4}, 1)$

Asymptotes  
 $-\frac{\pi}{2} < 2x < \frac{\pi}{2}$   
 $-\frac{\pi}{4} < x < \frac{\pi}{4}$

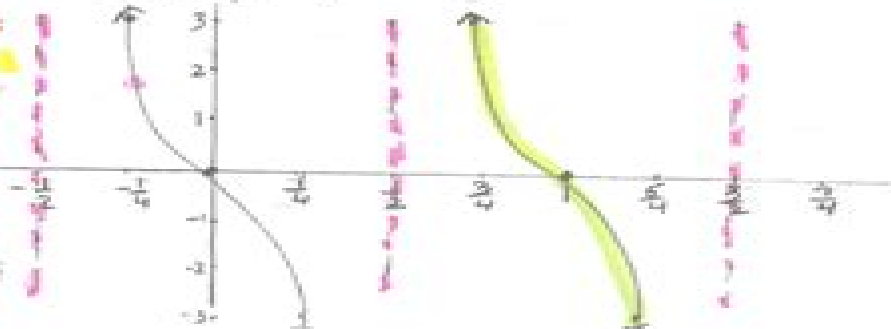
3.  $y = \frac{1}{4} \tan x$   
 Period:  $\frac{\pi}{B} = \pi$   
 Asymptotes:  $-\frac{\pi}{2}, \frac{\pi}{2}$   
 x-intercept (0,0)  
 $\frac{1}{4}$  point:  $(-\frac{\pi}{4}, -\frac{1}{4})$   
 $\frac{3}{4}$  point:  $(\frac{\pi}{4}, \frac{1}{4})$

Asymptotes  
 $-\frac{\pi}{2} < x < \frac{\pi}{2}$

4.  $y = -3 \tan \frac{\pi x}{2}$   
 Period:  $\frac{\pi}{B} = \frac{\pi}{\pi/2} = 1$   
 Asymptotes:  $-\frac{1}{2}, \frac{1}{2}$   
 x-intercept (0,0)  
 $\frac{1}{4}$  point:  $(-\frac{1}{4}, 3)$   
 $\frac{3}{4}$  point:  $(\frac{1}{4}, -3)$

Asymptotes  
 $-\frac{\pi}{2} < \frac{\pi x}{2} < \frac{\pi}{2}$   
 $-\frac{1}{2} < x < \frac{1}{2}$

Same as #1, except  
 change  $\frac{1}{3} \rightarrow \frac{1}{4}$



$-\frac{\pi}{2} = -\frac{\pi}{2} \times \frac{1}{\pi} = -\frac{1}{2}$

$\frac{\pi}{2} = \frac{\pi}{2} \times \frac{1}{\pi} = \frac{1}{2}$

# Graphing Tangent And Cotangent Functions Worksheet

**Ron Larson**



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