

pg. 737 #1-18 (15-18 graph 2+ cycles)

1.  $\tan(-\pi) = \frac{\sin(-\pi)}{\cos(-\pi)} = \frac{0}{-1} = 0$

9. window 0 to  $2\pi$ . 4 marks so each is  $\pi/2$   
asymptotes at  $\pi/2$  and  $3\pi/2$  so period is  $\pi$

11. period =  $\frac{\pi}{b} = \frac{\pi}{5}$  asymptotes at  $-\frac{\pi}{10}$  and  $\frac{\pi}{10}$

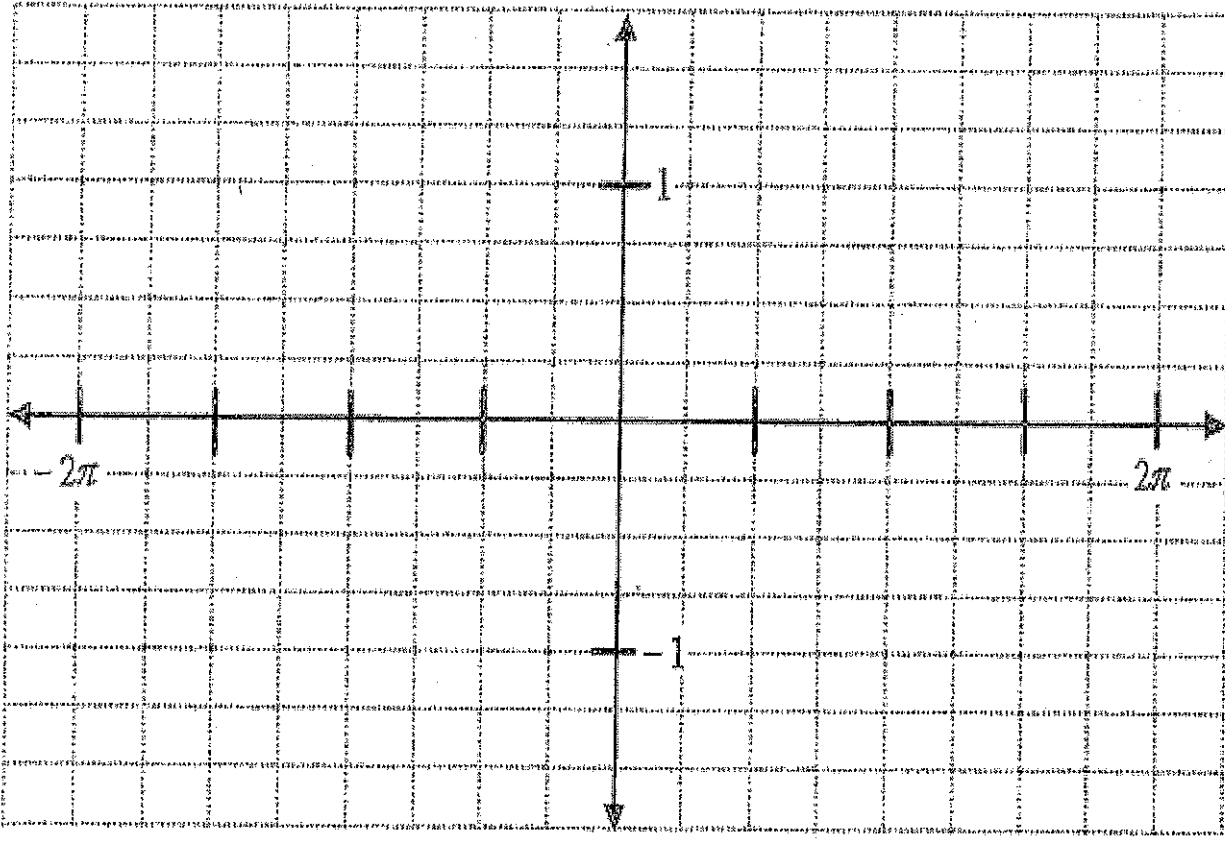
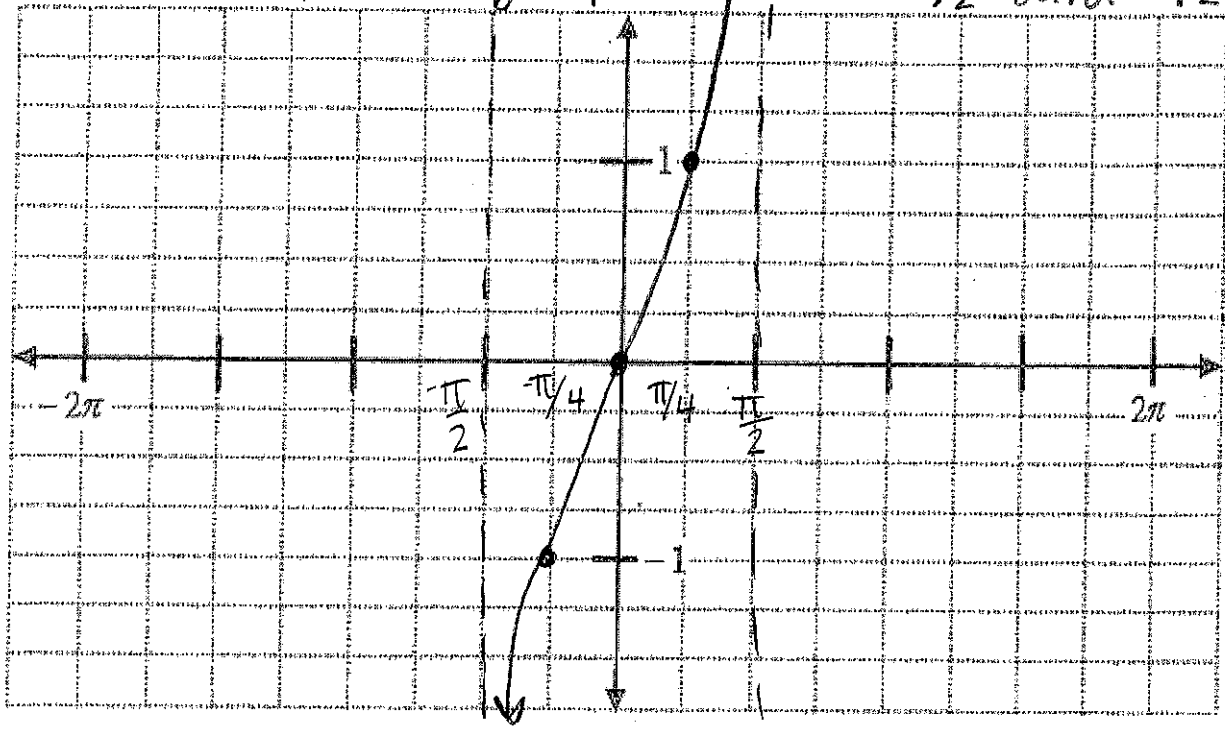
15. graph paper

$y = \tan \theta$

amp = 1  
period =  $\frac{\pi}{b} = \frac{\pi}{1}$

asymptote =  $\frac{\pi}{2}$  left & right  
 $-\frac{\pi}{2}$  and  $\frac{\pi}{2}$

15.



Answers for Lesson 13-6, pp. 737-740 Exercises

1. 0

2. 0

3. -1

4. undefined

5. 1

6. 0

7. 1

8. undefined

9.  $\pi$

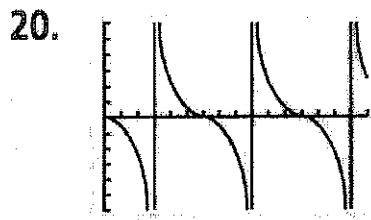
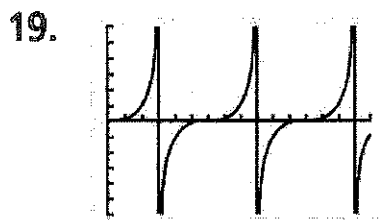
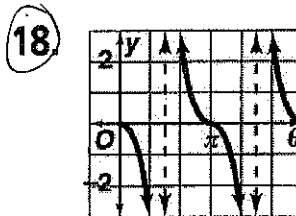
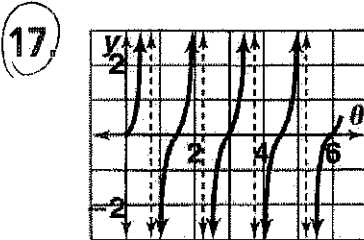
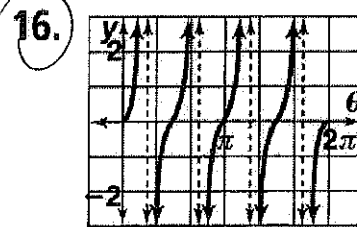
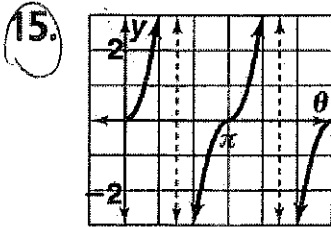
10.  $\frac{\pi}{2}$

11.  $\frac{\pi}{5}, \theta = -\frac{\pi}{10}, \frac{\pi}{10}$

12.  $\frac{2\pi}{3}, \theta = -\frac{\pi}{3}, \frac{\pi}{3}$

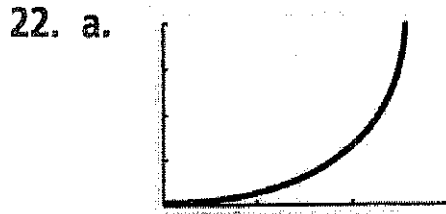
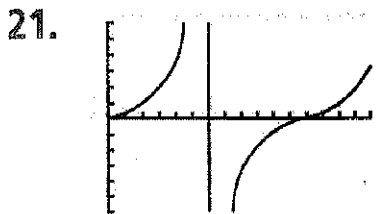
13.  $\frac{\pi}{4}, \theta = -\frac{\pi}{8}, \frac{\pi}{8}$

14.  $\frac{3\pi^2}{2}, \theta = -\frac{3\pi^2}{4}, \frac{3\pi^2}{4}$



50, undefined, -50

-100, undefined, 100



$\approx 51.8, 125, \approx 301.8$

b.  $\approx 14.3$  ft

c.  $\approx 20.2$  ft