

13.6

Find the exact value of each trigonometric function.

1) $\tan \frac{4\pi}{3}$

2) $\tan \frac{\pi}{6}$

3) $\tan \frac{5\pi}{6}$

4) $\tan \frac{7\pi}{6}$

5) $\tan \frac{\pi}{3}$

6) $\tan \frac{7\pi}{4}$

7) $\tan \frac{5\pi}{3}$

8) $\tan \frac{\pi}{4}$

9) $\tan 0$

10) $\tan \frac{3\pi}{4}$

11) $\tan \frac{\pi}{2}$

12) $\tan \pi$

13) $\tan \frac{3\pi}{2}$

14) $\tan \frac{5\pi}{4}$

Identify the period and the asymptotes for each. Then graph each using radians.

15) $y = \tan \frac{\theta}{3}$

16) $y = 3\tan 2\theta$

17) $y = \frac{1}{2} \cdot \tan \frac{\theta}{3}$

18) $y = 2\tan 2\theta$

19) $y = 2\tan \frac{\theta}{2}$

20) $y = 3\tan \theta$

