

Practice 13.6 The Tangent Function

Name:

Sketch two cycles of each tangent function.

1) $y = \tan 5\theta$

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

3) $y = -\tan 4\theta$

4) $y = \tan 2\theta$

5) $y = \tan \frac{\pi}{6} \theta$

Use the graph of $y = \tan \theta$ to find each value. If the tangent is undefined at that point, write *undefined*.

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|---------------------------------------|--------------------------|
| 1. $\tan(-\pi)$ | 2. $\tan \pi$ |
| 3. $\tan \frac{3\pi}{4}$ | 4. $\tan \frac{\pi}{2}$ |
| 5. $\tan\left(-\frac{7\pi}{4}\right)$ | 6. $\tan 2\pi$ |
| 7. $\tan\left(-\frac{3\pi}{4}\right)$ | 8. $\tan \frac{3\pi}{2}$ |

