

Trigonometry T6: Reference Angles

Find the reference angle for the following angles (hint: use assignment T5):

1. 75°

2. 195°

3. 300°

4. -170°

5. 540°

6. -1020°

7. $\frac{\pi}{4}$

8. $\frac{11\pi}{6}$

9. -5π

The terminal side of θ is in the given quadrant, and satisfies the given trig function find the value of the unknown trig function.

10. $\sin\theta = \frac{3}{7}$, Quadrant I; Find $\cos\theta$

11. $\cos\theta = -\frac{5}{9}$, Quadrant III; Find $\tan\theta$

12. $\cos\theta = \frac{7}{10}$, Quadrant IV; Find $\sin\theta$

13. $\tan\theta = -\frac{4}{8}$, Quadrant II; Find $\cos\theta$

Find the EXACT value for the following trig functions:

14. $\cos\frac{3\pi}{2}$

15. $\tan 210^\circ$

16. $\sin\frac{5\pi}{6}$

17. $\cos 315^\circ$