

Evaluating Using Reference Triangles

Evaluate the exact trigonometric value for each of the following angles.

1. $\sin(210^\circ) =$

2. $\cos(330^\circ) =$

3. $\tan(135^\circ) =$

4. $\sin\left(-\frac{\pi}{4}\right) =$

5. $\tan\left(\frac{5\pi}{6}\right) =$

6. $\cos(-120^\circ) =$

7. $\sin(-300^\circ) =$

8. $\tan(495^\circ) =$

9. $\sin(120^\circ) =$

10. $\cos(150^\circ) =$

11. $\tan(60^\circ) =$

12. $\tan(300^\circ) =$

Challenge: Evaluate the following trig functions without using a calculator.

A.) $\sin 30^\circ + \cos 30^\circ + \tan 30^\circ$

B.) $\sin 45^\circ + \cos 45^\circ + \tan 45^\circ$