

Assignment 6.2

For problems 1 - 2, determine the exact values of all six trigonometric functions of the given angle.

1. 60°

$\sin 60^\circ =$

$\cos 60^\circ =$

$\tan 60^\circ =$

$\csc 60^\circ =$

$\sec 60^\circ =$

$\cot 60^\circ =$

2. -150°

$\sin -150^\circ =$

$\cos -150^\circ =$

$\tan -150^\circ =$

$\csc -150^\circ =$

$\sec -150^\circ =$

$\cot -150^\circ =$

For problems 3 – 10, evaluate the given expression, leaving the answer in simple radical form.

3. $\sin -180^\circ =$

4. $\cos -240^\circ =$

5. $\tan 315^\circ =$

6. $\cot 360^\circ =$

7. $\sec -150^\circ =$

8. $\csc 45^\circ =$

9. $\sin 30^\circ + \cos 60^\circ =$

10. $\tan 300^\circ \sec 300^\circ =$