

# Unit Circle Worksheet

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Convert the following angles from degrees to radians. Express answers in terms of  $\pi$ .

1.  $30^\circ = \underline{\hspace{2cm}}$  radians

2.  $45^\circ = \underline{\hspace{2cm}}$  radians

3.  $60^\circ = \underline{\hspace{2cm}}$  radians

4.  $120^\circ = \underline{\hspace{2cm}}$  radians

5.  $135^\circ = \underline{\hspace{2cm}}$  radians

Find the exact values of the following trigonometric functions using the unit circle

1.  $\sin(60^\circ) = \underline{\hspace{2cm}}$

2.  $\cos(135^\circ) = \underline{\hspace{2cm}}$

3.  $\tan(210^\circ) = \underline{\hspace{2cm}}$

4.  $\sin(330^\circ) = \underline{\hspace{2cm}}$

5.  $\cos(240^\circ) = \underline{\hspace{2cm}}$