

Unit Circle Worksheet

Convert the following angles from degrees to radians. Express answers in terms of π .

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