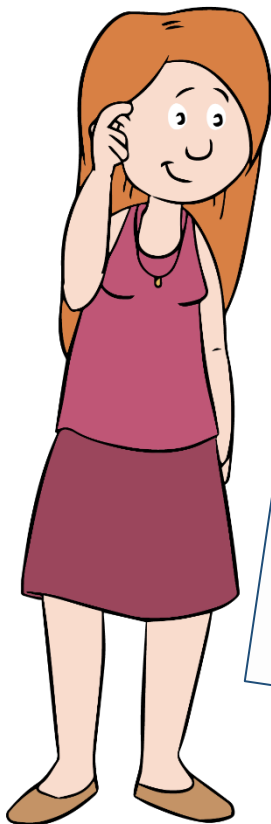


# Trigonometric Maze Activity



**Trigonometric Functions Maze**

Directions: Every angle has a match. Pick three different colors, shade sine angles and measures in one color, cosine angles and measures in a second color and tangent angles and measures in the third color.

**Trigonometric Functions Maze**

Directions: Different colors, shade sine angles and measures in one color, cosine angles and measures in a second color and tangent angles and measures in the third color.

**FREEBIE!**

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Jean Adams

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# Trigonometric Maze Activity

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Directions: Every angle has a match. Pick three different colors, shade sine angles and measures in one color, cosine angles and measures in a second color and tangent angles and measures in the third color.

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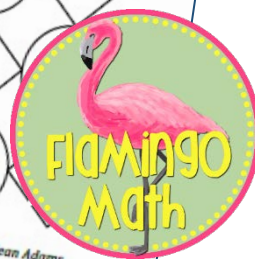


Maze grid containing various trigonometric values:

- $\sin 30^\circ$ ,  $\frac{\sqrt{3}}{2}$ ,  $\cos 60^\circ$ ,  $\frac{1}{2}$ ,  $\tan 30^\circ$ ,  $1$ ,  $\sin 90^\circ$
- $\frac{1}{2}$ ,  $\sin 60^\circ$ ,  $0$ ,  $\cos 135^\circ$ ,  $\frac{\sqrt{3}}{3}$ ,  $\cos 330^\circ$ ,  $\frac{\sqrt{3}}{2}$
- $\sin 180^\circ$ ,  $\frac{1}{2}$ ,  $\tan 180^\circ$ ,  $-\frac{\sqrt{2}}{2}$ ,  $\cos 30^\circ$ ,  $\frac{\sqrt{3}}{2}$ ,  $\sin 210^\circ$
- $0$ ,  $\sin 150^\circ$ ,  $\frac{\sqrt{2}}{2}$ ,  $\tan 60^\circ$ ,  $\sqrt{3}$ ,  $\cos 180^\circ$ ,  $-\frac{1}{2}$
- $\tan 45^\circ$ ,  $1$ ,  $\sin 45^\circ$ ,  $-\frac{\sqrt{3}}{2}$ ,  $\sin 300^\circ$ ,  $-1$ ,  $\cos 270^\circ$
- $-\frac{1}{2}$ ,  $\cos 120^\circ$ ,  $-\frac{\sqrt{2}}{2}$ ,  $\sin 225^\circ$ ,  $\frac{\sqrt{3}}{2}$ ,  $\sin 120^\circ$ ,  $0$
- $\cos 360^\circ$ ,  $1$ ,  $\cos 300^\circ$ ,  $-\sqrt{3}$ ,  $\tan 300^\circ$ ,  $1$
- $-1$ ,  $\tan 315^\circ$ ,  $\frac{1}{2}$ ,  $\tan 210^\circ$ ,  $\frac{\sqrt{3}}{3}$ ,  $\cos 240^\circ$

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## TRIG FUNCTIONS MAZE ACTIVITY

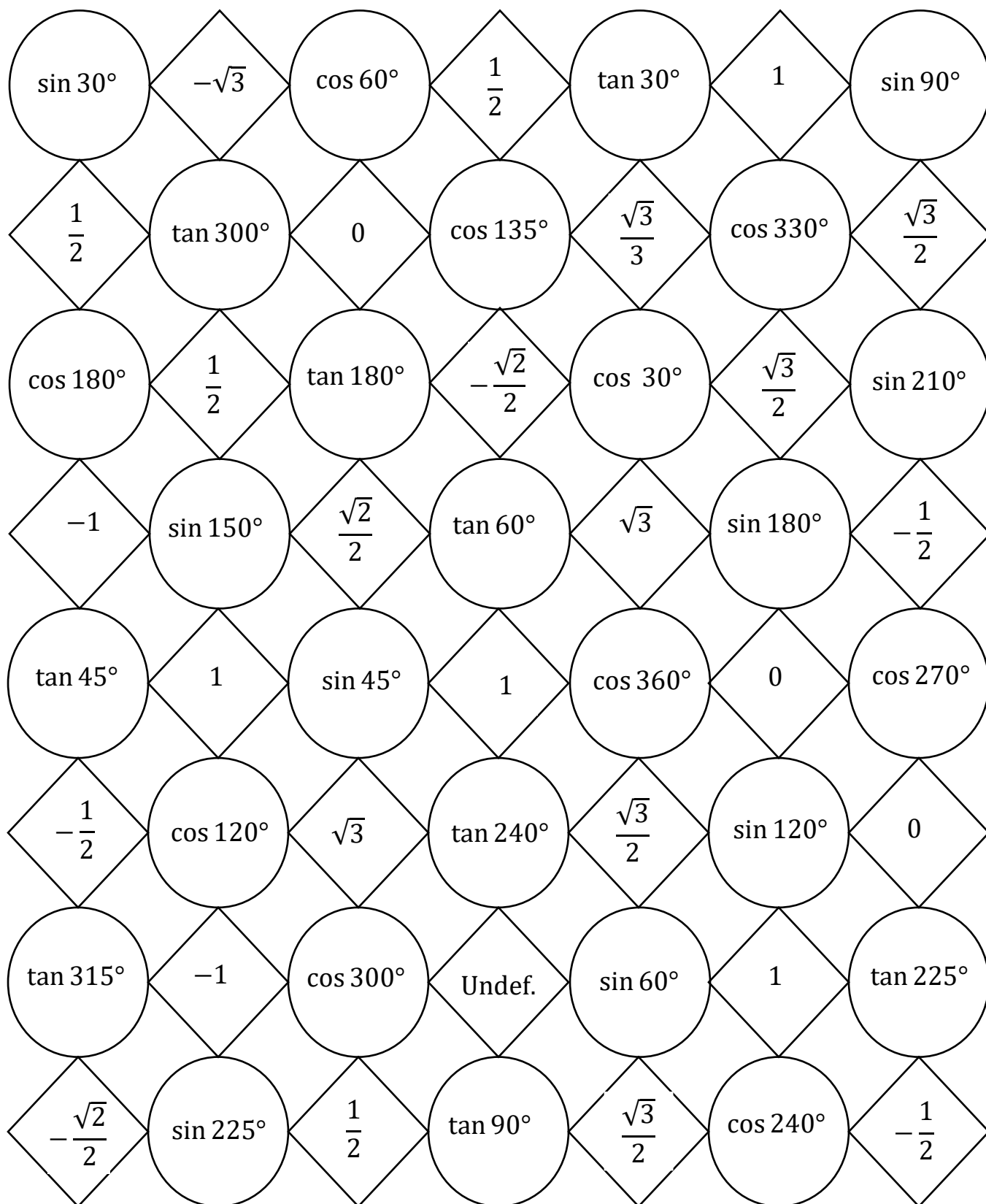
What about some focused fun to help students practice basic trigonometric function values? It's one of those concepts that students need practice to know. You can choose angle measures in either degrees or radians. Students can work cooperatively or alone. Have students work the puzzle using three different colors, one for each function, sine, cosine, and tangent. Each angle has an answer in the diamond shapes surrounding each circle. Lots of variety. Plenty of practice for basic unit circle trig values.

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I appreciate your comments, suggestions, and ideas

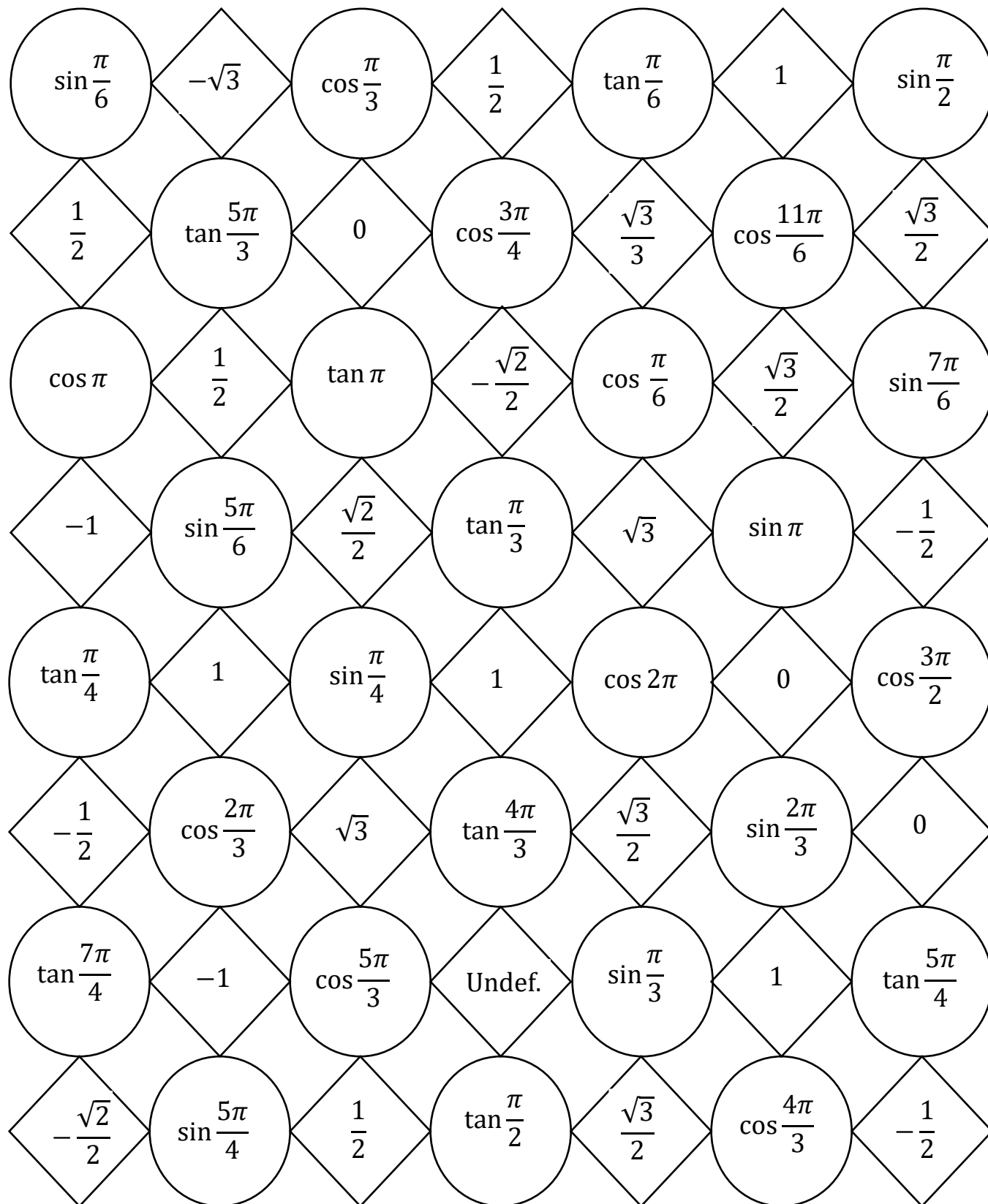
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# Trigonometric Functions Maze

**Directions:** Every angle has a match. Pick three different colors, shade sine angles and measures in one color, cosine angles and measures in a second color and tangent angles and measures in the third color.

The maze consists of a 7x7 grid of circles and diamonds. The values are as follows:

sin 30°	$-\sqrt{3}$	cos 60°	$\frac{1}{2}$	tan 30°	1	sin 90°
$\frac{1}{2}$	tan 300°	0	cos 135°	$\frac{\sqrt{3}}{3}$	cos 330°	$\frac{\sqrt{3}}{2}$
cos 180°	$\frac{1}{2}$	tan 180°	$-\frac{\sqrt{2}}{2}$	cos 30°	$\frac{\sqrt{3}}{2}$	sin 210°
-1	sin 150°	$\frac{\sqrt{2}}{2}$	tan 60°	$\sqrt{3}$	sin 180°	$-\frac{1}{2}$
tan 45°	1	sin 45°	1	cos 360°	0	cos 270°
$-\frac{1}{2}$	cos 120°	$\sqrt{3}$	tan 240°	$\frac{\sqrt{3}}{2}$	sin 120°	0
tan 315°	-1	cos 300°	Undef.	sin 60°	1	tan 225°
$-\frac{\sqrt{2}}{2}$	sin 225°	$\frac{1}{2}$	tan 90°	$\frac{\sqrt{3}}{2}$	cos 240°	$-\frac{1}{2}$

# Trigonometric Functions Maze

**Directions:** Every angle has a match. Pick three different colors, shade sine angles and measures in one color, cosine angles and measures in a second color and tangent angles and measures in the third color.

$\sin \frac{\pi}{6}$	$-\sqrt{3}$	$\cos \frac{\pi}{3}$	$\frac{1}{2}$	$\tan \frac{\pi}{6}$	1	$\sin \frac{\pi}{2}$
$\frac{1}{2}$	$\tan \frac{5\pi}{3}$	0	$\cos \frac{3\pi}{4}$	$\frac{\sqrt{3}}{3}$	$\cos \frac{11\pi}{6}$	$\frac{\sqrt{3}}{2}$
$\cos \pi$	$\frac{1}{2}$	$\tan \pi$	$-\frac{\sqrt{2}}{2}$	$\cos \frac{\pi}{6}$	$\frac{\sqrt{3}}{2}$	$\sin \frac{7\pi}{6}$
-1	$\sin \frac{5\pi}{6}$	$\frac{\sqrt{2}}{2}$	$\tan \frac{\pi}{3}$	$\sqrt{3}$	$\sin \pi$	$-\frac{1}{2}$
$\tan \frac{\pi}{4}$	1	$\sin \frac{\pi}{4}$	1	$\cos 2\pi$	0	$\cos \frac{3\pi}{2}$
$-\frac{1}{2}$	$\cos \frac{2\pi}{3}$	$\sqrt{3}$	$\tan \frac{4\pi}{3}$	$\frac{\sqrt{3}}{2}$	$\sin \frac{2\pi}{3}$	0
$\tan \frac{7\pi}{4}$	-1	$\cos \frac{5\pi}{3}$	Undef.	$\sin \frac{\pi}{3}$	1	$\tan \frac{5\pi}{4}$
$-\frac{\sqrt{2}}{2}$	$\sin \frac{5\pi}{4}$	$\frac{1}{2}$	$\tan \frac{\pi}{2}$	$\frac{\sqrt{3}}{2}$	$\cos \frac{4\pi}{3}$	$-\frac{1}{2}$

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