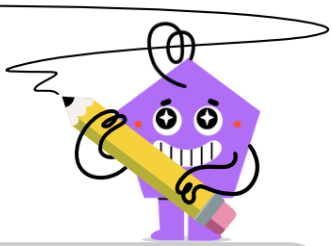
Name



Trigonometry, Unit Circle - Angle (Radians) to Coordinates (30s)

1

$\frac{11\pi}{6}$ radians

What are the coordinates of the point on the unit circle at 11π/6 radians?

A $(\frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2})$

B $(\frac{\sqrt{3}}{2}, -\frac{1}{2})$

2

$\frac{7\pi}{6}$ radians

What are the coordinates of the point on the unit circle at 7π/6 radians?

A $(-\frac{\sqrt{3}}{2}, -\frac{1}{2})$

B $(-\frac{1}{2}, -\frac{\sqrt{3}}{2})$

3

$\frac{\pi}{6}$ radians

What are the coordinates of the point on the unit circle at π/6 radians?

A $(-\frac{1}{2}, \frac{\sqrt{3}}{2})$

B $(\frac{\sqrt{3}}{2}, \frac{1}{2})$

4

$\frac{3\pi}{4}$ radians

What are the coordinates of the point on the unit circle at 3π/4 radians?

A $(-\frac{\sqrt{3}}{2}, -\frac{1}{2})$

B $(-\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2})$

5

$\frac{7\pi}{4}$ radians

What are the coordinates of the point on the unit circle at 7π/4 radians?

A $(\frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2})$

B $(\frac{1}{2}, -\frac{\sqrt{3}}{2})$

6

$\frac{5\pi}{6}$ radians

What are the coordinates of the point on the unit circle at 5π/6 radians?

A $(-\frac{\sqrt{3}}{2}, \frac{1}{2})$

B $(-\frac{\sqrt{3}}{2}, -\frac{1}{2})$

7

2π radians

What are the coordinates of the point on the unit circle at 2π radians?

A $(0, 1)$

B $(1, 0)$

8

$\frac{\pi}{4}$ radians

What are the coordinates of the point on the unit circle at π/4 radians?

A $(-\frac{\sqrt{3}}{2}, \frac{1}{2})$

B $(\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2})$