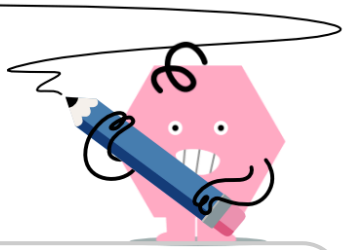
Name

Trigonometry Identities - Half Angle Identity True/False (Radians)



1

Is this half-angle identity correct?

$$\tan\left(\frac{\frac{7\pi}{6}}{2}\right) = \frac{\sin\left(\frac{7\pi}{6}\right)}{1+\cos\left(\frac{7\pi}{6}\right)}$$

A Yes | B No

2

Is this half-angle identity correct?

$$\sin\left(\frac{\frac{7\pi}{4}}{2}\right) = \pm\sqrt{\frac{1-\cos\left(\frac{7\pi}{4}\right)}{2}}$$

A Yes | B No

3

Is this half-angle identity correct?

$$\sin\left(\frac{\frac{2\pi}{3}}{2}\right) = \pm\sqrt{\frac{1+\cos\left(\frac{2\pi}{3}\right)}{1-\cos\left(\frac{2\pi}{3}\right)}}$$

A Yes | B No

4

Is this half-angle identity correct?

$$\tan\left(\frac{\frac{5\pi}{3}}{2}\right) = \pm\sqrt{\frac{1+\sin\left(\frac{5\pi}{3}\right)}{1-\sin\left(\frac{5\pi}{3}\right)}}$$

A Yes | B No

5

Is this half-angle identity correct?

$$\sin\left(\frac{\frac{5\pi}{6}}{2}\right) = \pm\sqrt{\frac{1+\cos\left(\frac{5\pi}{6}\right)}{1-\cos\left(\frac{5\pi}{6}\right)}}$$

A Yes | B No

6

Is this half-angle identity correct?

$$\cos\left(\frac{\frac{5\pi}{6}}{2}\right) = \pm\sqrt{\frac{1+\cos\left(\frac{5\pi}{6}\right)}{2}}$$

A Yes | B No

7

Is this half-angle identity correct?

$$\cos\left(\frac{\frac{7\pi}{6}}{2}\right) = \pm\sqrt{\frac{1+\cos\left(\frac{7\pi}{6}\right)}{2}}$$

A Yes | B No

8

Is this half-angle identity correct?

$$\cos\left(\frac{\frac{7\pi}{4}}{2}\right) = \pm\sqrt{\frac{1+\cos\left(\frac{7\pi}{4}\right)}{2}}$$

A Yes | B No