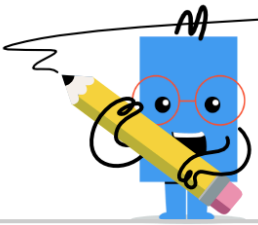
Name

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



1

Is this half-angle identity correct?

$$\tan\left(\frac{30^\circ}{2}\right) = \frac{\sin(30^\circ)}{1+\cos(30^\circ)}$$

A Yes

B No

2

Is this half-angle identity correct?

$$\tan\left(\frac{30^\circ}{2}\right) = \frac{1+\cos(30^\circ)}{1+\sin(30^\circ)}$$

A Yes

B No

3

Is this half-angle identity correct?

$$\sin\left(\frac{240^\circ}{2}\right) = \pm\sqrt{\frac{1+\cos(240^\circ)}{1-\cos(240^\circ}}$$

A Yes

B No

4

Is this half-angle identity correct?

$$\cos\left(\frac{45^\circ}{2}\right) = \pm\sqrt{\frac{1+\cos(45^\circ)}{1-\cos(45^\circ}}$$

A Yes

B No

5

Is this half-angle identity correct?

$$\cos\left(\frac{315^\circ}{2}\right) = \pm\sqrt{\frac{1+\cos(315^\circ)}{2}}$$

A Yes

B No

6

Is this half-angle identity correct?

$$\sin\left(\frac{240^\circ}{2}\right) = \pm\sqrt{\frac{1-\cos(240^\circ)}{2}}$$

A Yes

B No

7

Is this half-angle identity correct?

$$\cos\left(\frac{60^\circ}{2}\right) = \pm\sqrt{\frac{1+\cos(60^\circ)}{2}}$$

A Yes

B No

8

Is this half-angle identity correct?

$$\cos\left(\frac{150^\circ}{2}\right) = \pm\sqrt{\frac{1+\sin(150^\circ)}{2}}$$

A Yes

B No