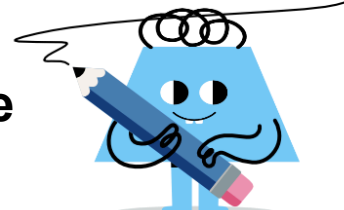




## Trigonometry Identities - Double Angle Identity True/False (Radians)



1 Is this double-angle identity correct?

$$\sin\left(2 \cdot \frac{\pi}{4}\right) = \frac{\sin\left(\frac{\pi}{4}\right)\cos\left(\frac{\pi}{4}\right)}{2}$$

A

Yes

B

No

2 Is this double-angle identity correct?

$$\cos\left(2 \cdot \frac{2\pi}{3}\right) = 1 + 2\sin^2\left(\frac{2\pi}{3}\right)$$

A

Yes

B

No

3 Is this double-angle identity correct?

$$\tan\left(2 \cdot \frac{5\pi}{4}\right) = 2\tan\left(\frac{5\pi}{4}\right)\cot\left(\frac{5\pi}{4}\right)$$

A

Yes

B

No

4 Is this double-angle identity correct?

$$\cos\left(2 \cdot \frac{5\pi}{6}\right) = \cos^2\left(\frac{5\pi}{6}\right) - \sin^2\left(\frac{5\pi}{6}\right)$$

A

Yes

B

No

5 Is this double-angle identity correct?

$$\sin\left(2 \cdot \frac{7\pi}{4}\right) = \sin\left(\frac{7\pi}{4}\right)\cos\left(\frac{7\pi}{4}\right)$$

A

Yes

B

No

6 Is this double-angle identity correct?

$$\cos\left(2 \cdot \frac{\pi}{3}\right) = 2\cos^2\left(\frac{\pi}{3}\right) + 1$$

A

Yes

B

No

7 Is this double-angle identity correct?

$$\cos\left(2 \cdot \frac{7\pi}{4}\right) = 2\cos^2\left(\frac{7\pi}{4}\right) - 1$$

A

Yes

B

No

8 Is this double-angle identity correct?

$$\tan\left(2 \cdot \frac{2\pi}{3}\right) = 2\tan\left(\frac{2\pi}{3}\right)\cot\left(\frac{2\pi}{3}\right)$$

A

Yes

B

No