Trigonometry Identities - Pythagorean (Tan^2 and Sin^2/Cos^2) Identity True/False (Radians)

1

Is this pythagorean trig identity correct?

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

A	B
Yes	No

2

Is this pythagorean trig identity correct?

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

A	B
Yes	No

3

Is this pythagorean trig identity correct?

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

A	B
Yes	No

4

Is this pythagorean trig identity correct?

$$\sin^2\left(\frac{4\pi}{3}\right) = \tan^2\left(\frac{4\pi}{3}\right) \cdot \cos^2\left(\frac{4\pi}{3}\right)$$

A	B
Yes	No

5

Is this pythagorean trig identity correct?

$$\cos^2\left(\frac{11\pi}{6}\right) = \sin^2\left(\frac{11\pi}{6}\right) \cdot \tan^2\left(\frac{11\pi}{6}\right)$$

A	B
Yes	No

6

Is this pythagorean trig identity correct?

$$\sin^2\left(\frac{3\pi}{4}\right) = \tan^2\left(\frac{3\pi}{4}\right) \cdot \cos^2\left(\frac{3\pi}{4}\right)$$

A	B
Yes	No

7

Is this pythagorean trig identity correct?

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

A	B
Yes	No

8

Is this pythagorean trig identity correct?

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

A	B
Yes	No