

Quiz 9

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Question 1 If $\cot^2(\alpha) = 11$ then $\csc^2(\alpha)$ is equal to which of the following?

- A 12.
- B 10.
- C $\sqrt{11}$.
- D π .

Question 2 What's the value of $\cos\left(\frac{7\pi}{12}\right)$? (Notice that $\frac{7\pi}{12} = \frac{\pi}{3} + \frac{\pi}{4}$).

- A $\frac{\sqrt{2}-\sqrt{6}}{4}$.
- B $\frac{\sqrt{12}}{4}$.
- C $\frac{-\sqrt{4}}{4}$.
- D 0.

Question 3 $\cos^2(x) = (1 - \sin(x))(1 + \sin(x))$?

- A True.
- B False.

Question 4 Knowing that $\sin\left(\frac{\pi}{7}\right) \approx .43$, which of the following is the approximate value of $\cos\left(\frac{2\pi}{7}\right)$?

- A .8151
- B .1849
- C .5700
- D .3249