



# SA #02 Trigonometric Functions

Total points **5/5** ?

Name \*

---

Section \*





If  $\cos A = -\frac{24}{25}$  and  $\cos B = \frac{3}{5}$ , where  $\pi < A < \frac{3\pi}{2}$  and  $\frac{3\pi}{2} < B < 2\pi$ , then the value of  $\sin(A + B) = \dots\dots\dots$ .

$$\frac{3}{5}$$

Option 1



$$\frac{-3}{5}$$

Option 2

$$\frac{4}{5}$$

Option 3

$$\frac{-4}{5}$$

Option 4





$$\sin \frac{7\pi}{12} \cos \frac{\pi}{4} - \cos \frac{7\pi}{12} \sin \frac{\pi}{4} = \text{-----}$$

$$\frac{1}{2}$$

Option 1

$$\frac{-1}{2}$$

Option 2

$$\frac{\sqrt{3}}{2}$$

Option 3



$$\frac{-\sqrt{3}}{2}$$

Option 4





1/1

If  $\sin \theta = \frac{3}{5}$ ,  $\tan \alpha = \frac{1}{2}$ ,  $\frac{\pi}{2} < \theta < \pi < \alpha < \frac{3\pi}{2}$ , then the value of  $8 \tan \theta - \sqrt{5} \sec \alpha =$  -----.

$$\frac{5}{4}$$

Option 1

$$\frac{7}{2}$$

Option 2

$$\frac{-17}{2}$$

Option 3

$$\frac{-7}{2}$$

Option 4



1/1

$$\frac{\sin(\pi + x) \cos\left(\frac{\pi}{2} + x\right) \tan\left(\frac{3\pi}{2} - x\right) \cot(2\pi - x)}{\sin(2\pi - x) \cos(2\pi + x) \operatorname{cosec}(-x) \sin\left(\frac{3\pi}{2} - x\right)} = \text{-----}$$

0



-1

1

None of these



\*

1/1

$$\tan(-225^\circ) \cot(-405^\circ) - \tan(-765^\circ) \cot(675^\circ) = \text{-----}$$

1

-1

0

2

This form was created inside of Sanskriti School.

Google Forms

