



## SA #03 Trigonometric Functions

Total points **5/5** **?**

Name \*

.....

Section \*





1/1

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  $\sin(A + B) =$ -----.

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

☒ Option 1

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

☐ Option 2

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

☐ Option 3

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

☐ Option 4



1/1

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

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

☐ 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

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