

#04 SA Trigonometric Functions	Total points 5/5

✓ Q1. \*  $\cos 6x - \cos 8x = \underline{\hspace{1cm}}$  $2\cos 7x\cos x$  $-2\cos 7x\cos x$ Option 1 Option 2  $-2\sin 7x \sin x$  $2\sin 7x \sin x$ Option 4 Option 3

1/1

 $\frac{\sin A + \sin 3A}{\cos A - \cos 3A} =$   $\cot A$   $\cot A$ 



osec A

✓ Q3. \*

1/1

If  $A + B = \frac{\pi}{3}$  and  $\cos A + \cos B = 1$ , then find the value of  $\cos \frac{A - B}{2}$ .

1

 $\sqrt{3}$ 

Option 1

Option 2

 $\frac{1}{2}$ 

 $\frac{1}{\sqrt{3}}$ 

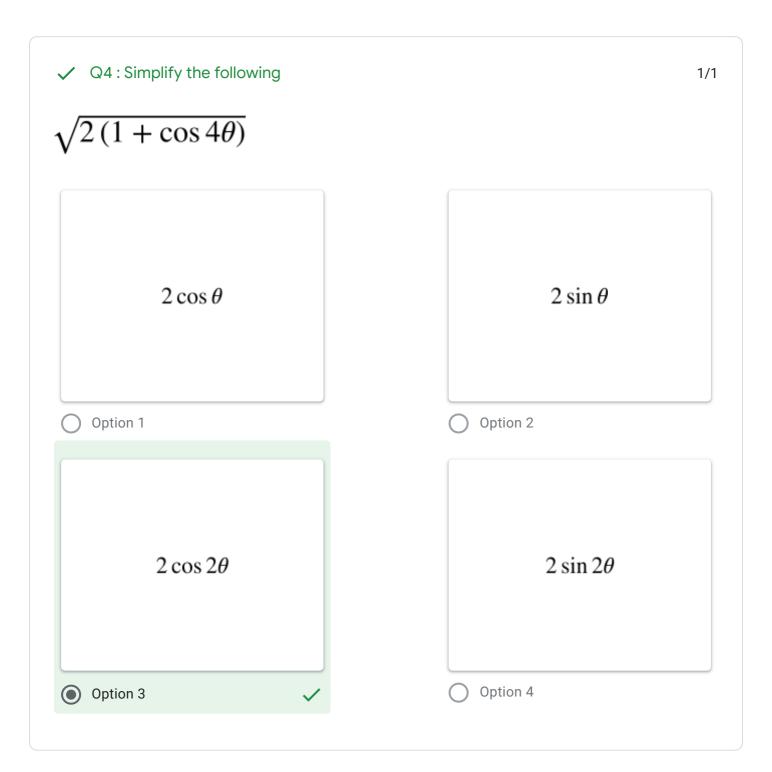
Option 3

Option 4

**Feedback** 

See the solution, is this what you did?

Solution



✓ Q5 \*

1/1

If  $\cos x = -\frac{1}{3}$  and x lies in Quadrant III, find the value of  $\sin\left(\frac{x}{2}\right)$ 

 $\frac{\sqrt{6}}{3}$ 

Option 1

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

Option 3

 $-\frac{\sqrt{6}}{3}$ 

Option 2

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

Option 4