



## #04 SA Trigonometric Functions

Total points

5/5



The respondent's email (**8608@sanskritischool.edu.in**) was recorded on submission of this form.

Name \*

Jaskirat

Section \*

- ☐ A
- ☐ B
- ☐ C
- ☐ D
- ☒ E
- ☐ F
- ☐ GHI



✓ Q1. \*

1/1

$$\cos 6x - \cos 8x = \text{-----}$$

$$2 \cos 7x \cos x$$

☐ Option 1

$$-2 \cos 7x \cos x$$

☐ Option 2

$$2 \sin 7x \sin x$$

☒ Option 3



$$-2 \sin 7x \sin x$$

☐ Option 4

✓ Q2. \*

1/1

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

☐ tan A

☒ cot A



☐ sec A

☐ sec A

☐ cosec 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

☐ Option 1

$\sqrt{3}$

☐ Option 2

$\frac{1}{2}$

☐ Option 3

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

☒ Option 4



### Feedback

See the solution, is this what you did?

[Solution](#)

✓ Q4 : Simplify the following

1/1

$$\sqrt{2(1 + \cos 4\theta)}$$

$$2 \cos \theta$$

☐ Option 1

$$2 \sin \theta$$

☐ Option 2

$$2 \cos 2\theta$$

☒ Option 3



$$2 \sin 2\theta$$

☐ Option 4



✓ 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



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

☐ Option 2

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

☐ Option 3

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

☐ Option 4

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