#01 SA Trigonometric Functions

Total points 5/5

Name

.....

✓ *

1/1

$$\cos(115^\circ)\cos(55^\circ) + \sin(115^\circ)\sin(55^\circ) =$$

$-\frac{1}{2}$

Option 1

$\frac{1}{2}$

Option 2 ✓

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

Option 3

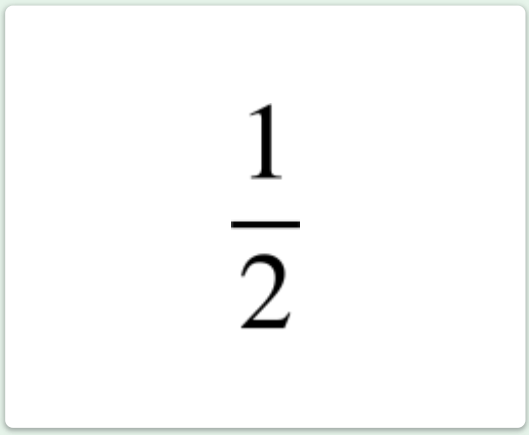
$-\frac{\sqrt{3}}{2}$

Option 4

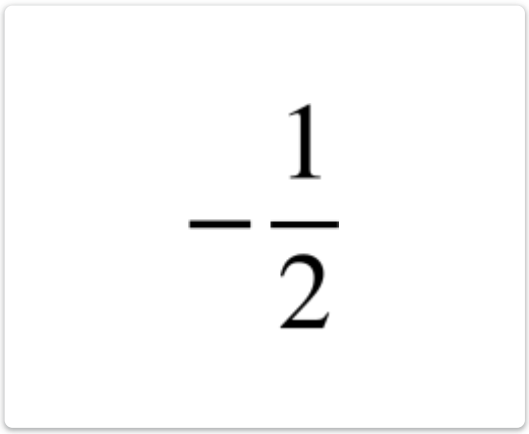
✓ *

1/1

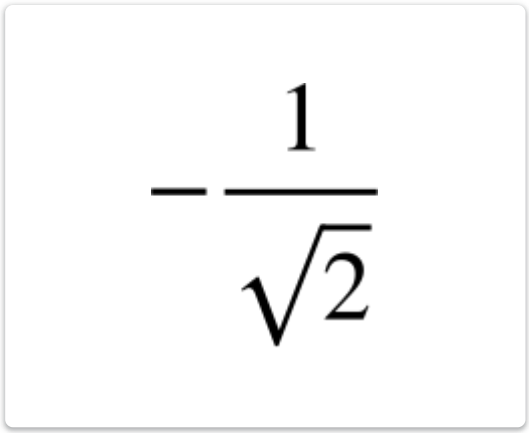
$$\sin(5\pi/12)\cos(\pi/4) - \cos(5\pi/12)\sin(\pi/4) =$$



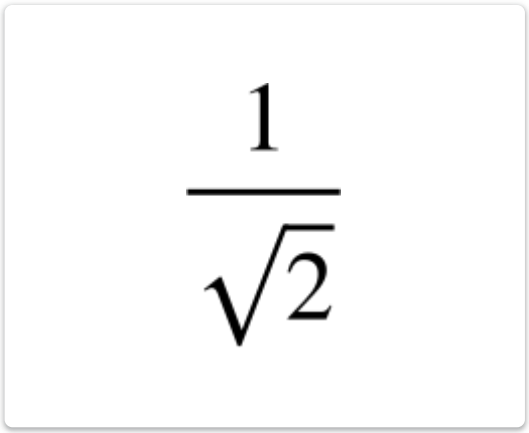
Option 1 ✓



Option 2



Option 3



Option 4

✓ *

1/1

$$\frac{\tan 45^\circ + \tan 30^\circ}{1 - \tan 45^\circ \tan 30^\circ}$$ is equivalent to

$\tan 15^\circ$

Option 1

$\tan 75^\circ$

Option 2 ✓

$$\frac{\sin 45^\circ}{\cos 30^\circ}$$

Option 3

$$\frac{\cos 30^\circ}{\sin 45^\circ}$$

Option 4

Other:

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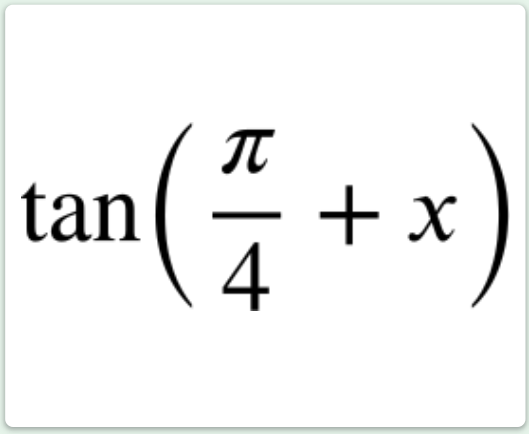
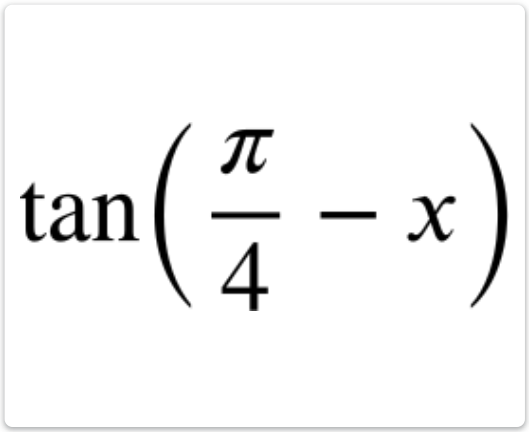
✓ *

$$\frac{1+\tan x}{1-\tan x}=$$

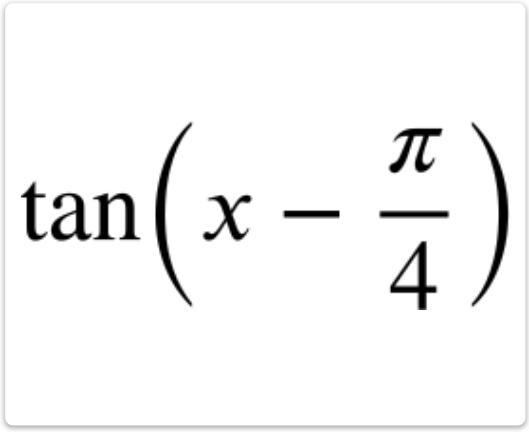


Option 1 ✓



Option 2

None of the above



Option 3

✓ *

1/1

If $\sin\alpha = \frac{5}{13}$ and $\cos\beta = \frac{4}{5}\left(0 < \alpha, \beta < \frac{\pi}{2}\right)$, then $\tan(\alpha - \beta) =$

$\frac{16}{63}$

Option 1

$-\frac{16}{63}$

Option 2 ✓

$\frac{63}{16}$

Option 3

$-\frac{63}{16}$

Option 4