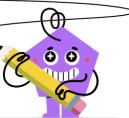


mobius

Trigonometry Identities - Sum to Product Identity True/False (Radians)



| Is this sum to product identity correct? | | 2 Is this sum to product identity correct? | |
|--|--|--|--|
| $\sin(rac{\pi}{6})-\sin(rac{5\pi}{3})=2\sin(rac{\left(rac{\pi}{6}-rac{5\pi}{3} ight)}{2})\cos(rac{\left(rac{\pi}{6}+rac{5\pi}{3} ight)}{2})$ | | $\sin(\frac{\pi}{3}) - \sin(\frac{7\pi}{4}) = 2\sin(\frac{(\frac{\pi}{3} - \frac{7\pi}{4})}{2})\cos(\frac{(\frac{\pi}{3} + \frac{7\pi}{4})}{2})$ | |
| A | В | A | В |
| Yes | No | Yes | No |
| Is this sum to product identity correct? | | 4 Is this sum to product identity correct? | |
| $\sin(rac{2\pi}{3})+\sin(rac{\pi}{6})=2\sin(rac{\pi}{6})$ | $\left(\frac{\left(\frac{2\pi}{3}+\frac{\pi}{6}\right)}{2}\right)\cos\left(\frac{\left(\frac{2\pi}{3}-\frac{\pi}{6}\right)}{2}\right)$ | $sin(rac{\pi}{3}) + sin(rac{\pi}{6}) = 2sin$ | $(\frac{(\frac{\pi}{3}+\frac{\pi}{6})}{2})\cos(\frac{(\frac{\pi}{3}-\frac{\pi}{6})}{2})$ |
| A | В | A | В |
| Yes | No | Yes | No |
| Is this sum to product identity correct? | | 6 Is this sum to product identity correct? | |
| $\cos(rac{5\pi}{3}) - \cos(rac{11\pi}{6}) = \cos(rac{(rac{5\pi}{3} + rac{11\pi}{6})}{2})\sin(rac{(rac{5\pi}{3} + rac{11\pi}{6})}{2})$ | | $\sin(rac{\pi}{6})+\sin(rac{\pi}{4})=2\sin(rac{(rac{\pi}{6}+rac{\pi}{4})}{2})\cos(rac{(rac{\pi}{6}-rac{\pi}{4})}{2})$ | |
| A | В | A | В |
| Yes | No | Yes | No |
| 7 Is this sum to product identity correct? | | 8 Is this sum to product identity correct? | |
| $\cos(rac{\pi}{3})+\cos(rac{2\pi}{3})=2\cos(rac{2}{(rac{\pi}{3}+rac{2\pi}{3})})\cos(rac{(rac{\pi}{3}-rac{2\pi}{3})}{2})$ | | $\sin(rac{11\pi}{6})-\sin(rac{5\pi}{4})=-2\sin(rac{2}{(rac{11\pi}{6})})\cos(rac{(rac{11\pi}{6}-rac{5\pi}{4})}{2})$ | |
| A | В | A | В |
| Yes | No | Yes | No |