

mobius

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



ELIVERATE MEN	identity in	ue/Faise (F	(adiaris)		
1 Is this p	product to sum ide	entity correct?	2 Is this product to	sum identity correct?	
$\cos(\frac{4\pi}{3})\sin(\frac{2\pi}{3}) =$	$=rac{1}{2}\left[\sin(rac{4\pi}{3}+rac{2\pi}{3} ight]$	$\left(\frac{4\pi}{3} - \frac{2\pi}{3}\right)$	$\cos(rac{2\pi}{3})\cos(rac{7\pi}{4}) = rac{1}{2}\left[\sin(rac{\pi}{4})\right]$	$\left[rac{2\pi}{3} + rac{7\pi}{4} ight) + \sin(rac{2\pi}{3} - rac{7\pi}{4}) ight]$	
A	В		A	В	
Yes		No	Yes	No	
Is this product to sum identity correct?			Is this product to sum identity correct?		
$\sin(\frac{\pi}{4})\sin(\frac{3\pi}{4}) =$	$=rac{1}{2}\left[\sin(rac{\pi}{4}+rac{3\pi}{4} ight]$	$\big) + \sin \big(\frac{\pi}{4} - \frac{3\pi}{4}\big) \bigg]$	$\sin(\frac{2\pi}{3})\cos(\frac{11\pi}{6}) = \frac{1}{2}\left[\sin(\frac{2\pi}{3})\right]$	$\left[rac{2\pi}{3} + rac{11\pi}{6} ight) + \sin(rac{2\pi}{3} - rac{11\pi}{6}) ight]$	
A	В		A	В	
Yes		No	Yes	No	
Is this product to sum identity correct?			6 Is this product to sum identity correct?		
$\sin(rac{5\pi}{6})\sin(rac{7\pi}{4})=$	$=\frac{1}{2}\left[\cos(\frac{5\pi}{6}+\frac{7\pi}{4})\right]$	$\big) + \sin \big(\frac{5\pi}{6} + \frac{7\pi}{4}\big) \bigg]$	$\cos(\frac{\pi}{3})\cos(\frac{7\pi}{6}) = \frac{1}{2}\left[\cos(\frac{\pi}{6})\right]$	$\left[rac{\pi}{3} + rac{7\pi}{6} ight) + \cos^2(rac{\pi}{3} + rac{7\pi}{6}) \right]$	
A	В		A	В	
Yes		No	Yes	No	
7 Is this product to sum identity correct?			8 Is this product to sum identity correct?		
$\cos(\frac{5\pi}{4})\sin(\frac{5\pi}{3}) =$	$=rac{1}{2}\left[\sin(rac{5\pi}{4}+rac{5\pi}{3} ight]$	$\left[-\sin(rac{5\pi}{4}-rac{5\pi}{3}) ight]$	$\sin(rac{\pi}{6})\sin(rac{\pi}{3})=rac{1}{2}\left[\cos(rac{\pi}{6}+rac{\pi}{3})+\sin(rac{\pi}{6}+rac{\pi}{3}) ight]$		
A	В		A	В	
Yes		No	Yes	No	