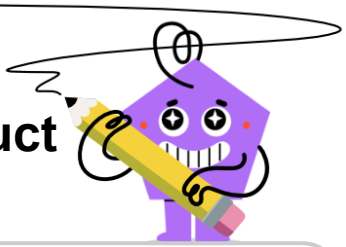
Name

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



1 Is this sum to product identity correct?

$$\sin(\frac{\pi}{6}) - \sin(\frac{5\pi}{3}) = 2\sin(\frac{(\frac{\pi}{6} - \frac{5\pi}{3})}{2})\cos(\frac{(\frac{\pi}{6} + \frac{5\pi}{3})}{2})$$

A	B
Yes	No

2 Is this sum to product identity correct?

$$\sin(\frac{\pi}{3}) - \sin(\frac{7\pi}{4}) = 2\sin(\frac{(\frac{\pi}{3} - \frac{7\pi}{4})}{2})\cos(\frac{(\frac{\pi}{3} + \frac{7\pi}{4})}{2})$$

A	B
Yes	No

3 Is this sum to product identity correct?

$$\sin(\frac{2\pi}{3}) + \sin(\frac{\pi}{6}) = 2\sin(\frac{(\frac{2\pi}{3} + \frac{\pi}{6})}{2})\cos(\frac{(\frac{2\pi}{3} - \frac{\pi}{6})}{2})$$

A	B
Yes	No

4 Is this sum to product identity correct?

$$\sin(\frac{\pi}{3}) + \sin(\frac{\pi}{6}) = 2\sin(\frac{(\frac{\pi}{3} + \frac{\pi}{6})}{2})\cos(\frac{(\frac{\pi}{3} - \frac{\pi}{6})}{2})$$

A	B
Yes	No

5 Is this sum to product identity correct?

$$\cos(\frac{5\pi}{3}) - \cos(\frac{11\pi}{6}) = \cos(\frac{(\frac{5\pi}{3} + \frac{11\pi}{6})}{2})\sin(\frac{(\frac{5\pi}{3} + \frac{11\pi}{6})}{2})$$

A	B
Yes	No

6 Is this sum to product identity correct?

$$\sin(\frac{\pi}{6}) + \sin(\frac{\pi}{4}) = 2\sin(\frac{(\frac{\pi}{6} + \frac{\pi}{4})}{2})\cos(\frac{(\frac{\pi}{6} - \frac{\pi}{4})}{2})$$

A	B
Yes	No

7 Is this sum to product identity correct?

$$\cos(\frac{\pi}{3}) + \cos(\frac{2\pi}{3}) = 2\cos(\frac{2}{(\frac{\pi}{3} + \frac{2\pi}{3})})\cos(\frac{(\frac{\pi}{3} - \frac{2\pi}{3})}{2})$$

A	B
Yes	No

8 Is this sum to product identity correct?

$$\sin(\frac{11\pi}{6}) - \sin(\frac{5\pi}{4}) = -2\sin(\frac{2}{(\frac{11\pi}{6})})\cos(\frac{(\frac{11\pi}{6} - \frac{5\pi}{4})}{2})$$

A	B
Yes	No