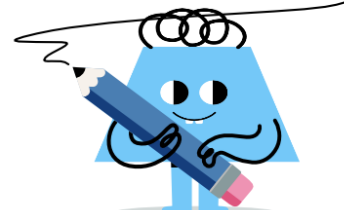




Trigonometry Identities - Half Angle to Identity (Degrees)



1

Complete the half-angle identity for this expression

$$\sin\left(\frac{240^\circ}{2}\right)$$

A

$$= \pm \sqrt{\frac{1 - \cos(240^\circ)}{2}}$$

B

$$= \pm \sqrt{\frac{1 + \cos(240^\circ)}{1 - \cos(240^\circ)}}$$

2

Complete the half-angle identity for this expression

$$\tan\left(\frac{315^\circ}{2}\right)$$

A

$$= \frac{1 - \cos(315^\circ)}{\sin(315^\circ)}$$

B

$$= \pm \sqrt{\frac{1 + \sin(315^\circ)}{1 - \sin(315^\circ)}}$$

3

Complete the half-angle identity for this expression

$$\tan\left(\frac{60^\circ}{2}\right)$$

A

$$= \pm \sqrt{\frac{1 + \sin(60^\circ)}{2}}$$

B

$$= \frac{1 - \cos(60^\circ)}{\sin(60^\circ)}$$

4

Complete the half-angle identity for this expression

$$\cos\left(\frac{210^\circ}{2}\right)$$

A

$$= \pm \sqrt{\frac{1 + \cos(210^\circ)}{1 - \cos(210^\circ)}}$$

B

$$= \pm \sqrt{\frac{1 + \cos(210^\circ)}{2}}$$

5

Complete the half-angle identity for this expression

$$\cos\left(\frac{60^\circ}{2}\right)$$

A

$$= \pm \sqrt{\frac{1 + \cos(60^\circ)}{2}}$$

B

$$= \pm \sqrt{\frac{1 + \cos(60^\circ)}{1 - \cos(60^\circ)}}$$

6

Complete the half-angle identity for this expression

$$\sin\left(\frac{330^\circ}{2}\right)$$

A

$$= \pm \sqrt{\frac{1 - \cos(330^\circ)}{2}}$$

B

$$= \pm \sqrt{\frac{1 + \cos(330^\circ)}{1 - \cos(330^\circ)}}$$

7

Complete the half-angle identity for this expression

$$\tan\left(\frac{225^\circ}{2}\right)$$

A

$$= \frac{1 + \cos(225^\circ)}{\csc(225^\circ)}$$

B

$$= \pm \sqrt{\frac{1 - \cos(225^\circ)}{1 + \cos(225^\circ)}}$$

8

Complete the half-angle identity for this expression

$$\tan\left(\frac{120^\circ}{2}\right)$$

A

$$= \frac{1 + \cos(120^\circ)}{\csc(120^\circ)}$$

B

$$= \frac{1 - \cos(120^\circ)}{\sin(120^\circ)}$$