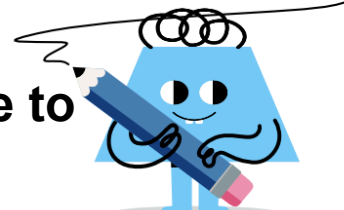




Trigonometry Identities - Double Angle to Identity (Degrees)



1 Complete the double-angle identity for this expression

$$\tan(2 \cdot 60^\circ)$$

A

$$= 2\tan(60^\circ)\cot(60^\circ)$$

B

$$= \frac{2\tan(60^\circ)}{1 - \tan^2(60^\circ)}$$

2 Complete the double-angle identity for this expression

$$\sin(2 \cdot 330^\circ)$$

A

$$= 2\sin(330^\circ)\cos(330^\circ)$$

B

$$= \frac{\sin(330^\circ)\cos(330^\circ)}{2}$$

3 Complete the double-angle identity for this expression

$$\tan(2 \cdot 30^\circ)$$

A

$$= 2\tan(30^\circ)\cot(30^\circ)$$

B

$$= \frac{2\tan(30^\circ)}{1 - \tan^2(30^\circ)}$$

4 Complete the double-angle identity for this expression

$$\tan(2 \cdot 225^\circ)$$

A

$$= \frac{2\tan(225^\circ)}{1 - \tan^2(225^\circ)}$$

B

$$= \frac{\sin(225^\circ)\cos(225^\circ)}{2}$$

5 Complete the double-angle identity for this expression

$$\tan(2 \cdot 300^\circ)$$

A

$$= \frac{2\tan(300^\circ)}{1 - \tan^2(300^\circ)}$$

B

$$= 2\tan(300^\circ)\cot(300^\circ)$$

6 Complete the double-angle identity for this expression

$$\sin(2 \cdot 150^\circ)$$

A

$$= \frac{\tan(150^\circ)}{1 + 2\tan(150^\circ)}$$

B

$$= \frac{2\tan(150^\circ)}{1 + \tan^2(150^\circ)}$$

7 Complete the double-angle identity for this expression

$$\sin(2 \cdot 225^\circ)$$

A

$$= 2\sin(225^\circ)\cos(225^\circ)$$

B

$$= \frac{\sin(225^\circ)\cos(225^\circ)}{2}$$

8 Complete the double-angle identity for this expression

$$\sin(2 \cdot 300^\circ)$$

A

$$= \frac{\sin(300^\circ)\cos(300^\circ)}{2}$$

B

$$= 2\sin(300^\circ)\cos(300^\circ)$$