

Sum and Difference Identities

Classify each statement as true or false, then explain your reasoning.

_____ 1) $\sin(90^\circ) = \sin(90^\circ) + \sin(0^\circ)$

_____ 3) $\sin(30^\circ) + \sin(60^\circ) = \sin(90^\circ)$

_____ 2) $\cos(90^\circ) = \cos(90^\circ) + \cos(0^\circ)$

_____ 4) $\tan(45^\circ) + \tan(45^\circ) = \tan(90^\circ)$

From these examples, recognize that the _____ property does NOT apply when using the trigonometric functions.

_____ property does NOT apply

...So what rules do apply?

Sum and Difference Identities

$$\sin(A + B) = \sin A \cos B + \cos A \sin B$$

$$\sin(A - B) = \sin A \cos B - \cos A \sin B$$

$$\cos(A + B) = \cos A \cos B - \sin A \sin B$$

$$\cos(A - B) = \cos A \cos B + \sin A \sin B$$

$$\tan(A + B) = \frac{\tan A + \tan B}{1 - \tan A \tan B}$$

$$\tan(A - B) = \frac{\tan A - \tan B}{1 + \tan A \tan B}$$

A. Demonstrate Demonstrate that each identity works by substituting the given values for A and B.

Sample: $\cos(A + B) = \cos A \cos B - \sin A \sin B$, when $A = \frac{\pi}{4}$ and $B = \frac{\pi}{4}$

Write the identity: $\cos(A + B) = \cos A \cos B - \sin A \sin B$

Substitute: $\cos(\frac{\pi}{4} + \frac{\pi}{4}) = \cos \frac{\pi}{4} \cos \frac{\pi}{4} - \sin \frac{\pi}{4} \sin \frac{\pi}{4}$

Evaluate: $\cos(\frac{\pi}{2}) = (\frac{1}{2}) \cdot (\frac{\sqrt{2}}{2}) - (\frac{\sqrt{2}}{2}) \cdot (\frac{1}{2})$

Simplify: $0 = \frac{\sqrt{2}}{4} - \frac{\sqrt{2}}{4}$

$0 = 0 \checkmark$

5) $\cos(A - B) = \cos A \cos B + \sin A \sin B$, when $A = \frac{\pi}{4}$ and $B = \frac{\pi}{4}$

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web sep 12 2022 the half life of the nuclei and thus the material is $t_{1/2} = 693$ million years 35 a the decay constant is $\lambda = 1.99 \times 10^{-5} \text{ s}^{-1}$ b since strontium 91 has an atomic mass of 90 90 g

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web nuclear equations represent the reactants and products in radioactive decay nuclear fission or nuclear fusion instead of chemical equations where it shows the different number of elements is conserved in a reaction in a nuclear reaction the atomic mass and proton number are conserved