

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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