

Sum and Difference Identities **KEY**

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

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

Yes, $1 = 1 + 0$

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

No, $0 \neq 0 + 1$

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

No, $\frac{1}{2} + \frac{\sqrt{3}}{2} \neq 1$

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

No, Left side = 2, right side is undefined

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

...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 $A = \frac{\pi}{3}$ and $B = \frac{\pi}{6}$

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

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

Evaluate: $\cos(\frac{\pi}{2}) = (\frac{1}{2}) - (\frac{\sqrt{3}}{2}) - (\frac{\sqrt{3}}{2}) \cdot (\frac{1}{2})$

Simplify: $0 = \frac{\sqrt{3}}{4} - \frac{\sqrt{3}}{4}$

$0 = 0 \checkmark$

5) $\cos(A - B) = \cos A \cos B + \sin A \sin B$, when $A = \frac{\pi}{3}$ and $B = \frac{\pi}{6}$

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

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

$\cos \frac{\pi}{6} = \frac{1}{2} \cdot \frac{\sqrt{3}}{2} + \frac{\sqrt{3}}{2} \cdot \frac{1}{2}$

$\frac{\sqrt{3}}{2} = \frac{\sqrt{3}}{4} + \frac{\sqrt{3}}{4}$

$\frac{\sqrt{3}}{2} = \frac{\sqrt{3}}{2}$

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