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

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

From these examples, recognize that the ______ when using the trigonometric functions.

____ property does NOT apply
...So what rules do apply?

Sum and Difference Identities

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

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

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

A. Demonstrate Demonstrate that each identity works by substituting the given values for A and 8.

Sample: cos(A+B) = cos A cos B - sin A sin B, when A = \$ and B = \$

Write the identity: cos(A+B) = 0

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: $\cos\left(\frac{1}{3}\right) = \left(\frac{1}{3}\right) \cdot \left(\frac{\sqrt{3}}{3}\right) - \left(\frac{\sqrt{3}}{3}\right) \cdot \left(\frac{1}{3}\right)$

5)
$$cos(A-B) = cos A cos B + sin A sin B$$
, when $A = \frac{1}{3}$ and $B = \frac{1}{3}$

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