

Verify - Sum & Difference Identities

Verify the following.

1)
$$\frac{\sin(x + y) + \sin(x - y)}{\cos(x + y) + \cos(x - y)} = \tan x$$

2)
$$\cos\left(\frac{4\pi}{3} - x\right) = -\cos x$$

3)
$$\tan\left(x - \frac{5\pi}{3}\right) = \frac{\tan x}{1 - \tan^2 x}$$

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Verify the following.

4) $\cos(30^\circ - x) = \frac{\sqrt{3} \cos x + \sin x}{2}$

5) $\tan(x - y) - \tan(y - x) = \dots$

6) $\sin\left(\frac{5\pi}{6} + x\right) = \frac{\cos x}{2}$

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