

Name : \_\_\_\_\_

## Verify - Sum & Difference Identities

Verify the following.

1)  $\cos\left(x - \frac{\pi}{6}\right) = \frac{\sqrt{3} \cos x - \sin x}{2}$

2)  $\tan(60^\circ - x)(1 + \sqrt{3})$

3)  $\sin(x + y) \sin(x - y)$

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## Verify - Sum & Difference Identities

Verify the following.

4)  $\tan(30^\circ + x) = \frac{1 + \sqrt{3} \tan x}{\sqrt{3} - \tan x}$

5)  $\sin\left(x + \frac{\pi}{6}\right) - \sin\left(x - \frac{\pi}{6}\right)$

6)  $\frac{\cos(x + y) + \cos(x - y)}{\sin x \cos y}$

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