

## Sum/Difference Identities

1.  $\sin(A + B) = \sin A \cos B + \cos A \sin B$

2.  $\sin(A - B) = \sin A \cos B - \cos A \sin B$

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

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

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

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