

# Math 1613 - Trigonometry

Quiz #16 - 2018.10.22

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

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In class, we derived the identity  $\cos(A - B) = \cos(A)\cos(B) + \sin(A)\sin(B)$ . Explain how you can use this identity to get each of the following identities:

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

(b)  $\cos(2A) = 1 - 2\sin^2(A)$ .