

# Math 1613 - Trigonometry

Quiz #17 - 2018.10.24

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

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In class, we derived the identity  $\sin(A + B) = \sin(A)\cos(B) + \cos(A)\sin(B)$ . Given that  $\cos(s) = -\frac{15}{17}$ ,  $\sin(t) = \frac{4}{5}$ , where  $s$  and  $t$  are angles in quadrants II and I, respectively, use this information to determine  $\sin(s + t)$ . (Hint:  $15^2 + 8^2 = 17^2$  and  $4^2 + 3^2 = 5^2$ .)