

MATH 1151 QUIZ-1 (15 minutes)

1. (3 points) Establish the identity $\frac{\tan \alpha + \tan \beta}{\cot \alpha + \cot \beta} = \tan \alpha \tan \beta$.

2.(3 points) Establish the identity $\frac{\sin(\alpha+\beta)}{\cos \alpha \cos \beta} = \tan \alpha + \tan \beta$.

3.(4 points) Find the value of the number C: $\frac{1}{2}(\cos x)^2 + C = \frac{1}{4} \cos 2x$.