

# PRECALCULUS QUIZ # 8

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NO NOTES, NO BOOKS.

USE A BLANK SHEET OF PAPER

AND A PEN OR PENCIL.

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#1) WRITE DOWN THE

A) RECIPROCAL IDENTITIES

B) QUOTIENT IDENTITIES

C) PYTHAGOREAN IDENTITIES

D) EVEN AND ODD IDENTITIES

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#2) PROVE  $\frac{\cos \theta}{1 + \sin \theta} \equiv \frac{1 - \sin \theta}{\cos \theta}$

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#3) PROVE  $\sin(\tan^{-1}(t)) \equiv \frac{t}{\sqrt{1+t^2}}$

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