

Name: _____

Date: 09/21

MATH 125

Quiz 3A

Problem 1. Find the limit $\lim_{t \rightarrow +\infty} \frac{1 + \sqrt{t^3}}{2 + \sqrt{t} + 3t - \sqrt{t^3}}$. (10 points)

Problem 2. Find the tangent line of the graph of the function $f(t) = \frac{1}{(t+3)^2}$ at the point $(1, f(1))$. (10 points)

Final Score: _____

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MATH 125

Quiz 3B

Problem 1. Find the limit $\lim_{t \rightarrow \frac{\pi}{2}^+} (x - 1) \tan x$. (10 points)

Problem 2. Find the tangent line of the function $f(t) = 1 + 2t + 4t^2$ at the point $(1, f(1))$. (10 points)

Final Score: _____