

Math 172 - Quiz 11

November 15, 2017

Name _____

Score _____

Show all work to receive full credit. Supply explanations when necessary.

1. (5 points) Use partial fractions to evaluate. Show all work.

$$\int \frac{2x^4 - x^3 + 4x^2}{x^3 + 4x} dx$$

2. (2.5 points) Evaluate the limit: $\lim_{x \rightarrow 0} \frac{\tan x - x}{x^3}$

3. (2.5 points) Write as a limit of proper integrals and evaluate.

$$\int_0^2 w^2 \ln w \, dw$$