

Quiz 2

Name: _____

Answer all questions in a clear and concise manner. Unsupported answers will receive *no credit*.

1. Find the form of the partial fractions decomposition of

$$\frac{8x^2 + 4}{x^4 - 1}.$$

You **do not** need to solve for the coefficients. Hint: $x^4 - 1$ is a difference of squares $(x^2 - 1)(x^2 + 1)$.

2. Find the area under the graph of xe^{3x} between 0 and 1.