

Quiz #1

Directions: Carefully read each question below and answer to the best of your ability in the space provided. Your answer to problem # 2 should be written in a clear and concise manner. You **MUST** show your work to receive full credit!

1. (5 points) Which of the following formulas correspond to the average value of the function $f(x) = e^x(x^2 - x + 1)$ on the interval $[-2, 1]$?

- A. $\int_{-2}^1 e^x(x^2 - x + 1) dx$
- B. $\frac{1}{3} \int_{-2}^1 e^x(2x - 1) dx$
- C. $\int_1^{-2} e^x(x^2 - x + 1) dx$
- D. $\frac{1}{3} \int_{-2}^1 e^x(x^2 - x + 1) dx$
- E. None of the above

2. (5 points) Find the area of the region enclosed by two functions: $y = \sqrt{x}$ and $y = \frac{x}{2}$.

Name: _____

Section (circle one): 001 002

Question:	1	2	Total
Points:	5	5	10
Score:			