

Name:

ID #:

Section 6

Serial #:

Q1. (2 points) $\lim_{x \rightarrow 0^-} x^2 e^{\frac{1}{x}} =$

Q2. (2 points) Find $\frac{dy}{dx}$ in simplest form if $y = \sqrt{e^{\sqrt{x}}}$.

Q2. (3 points) $\lim_{t \rightarrow 1} \frac{\sin(t-1)}{t^2 + t - 2} =$

Q3. (4 points) Find a rule for $\frac{d^n y}{dx^n}$ if $y = \sqrt{3x}$.

With My Best Wishes