

MATH 101-09 (171)
QUIZ # 3

NAME:

ID. #:

Q1. Find the Derivative of the function

$$f(t) = e^t(t^{-3} + t^{-2})$$

Q2. Suppose u and v are functions of x that are differentiable at $x = 0$ and that

$$u(0) = 5, \quad u'(0) = -3, \quad v(0) = -1, \quad v'(0) = 2.$$

Find $\frac{d}{dx}\left(\frac{v}{u}\right)$ at $x = 0$