MA 16010: Applied Calculus 1   Quiz 4   Fri., Sept. 17, 2021

> Please show **all** your work! Answers without supporting work will not be given credit. Write answers in spaces provided.

Name:_____

1. Find the derivative of the following functions:

   (a) [**2 pts**] $u(x) = 3e^x$

   (b) [**2 pts**] $v(x) = 2\cos(x)$

   (c) [**2 pts**] $w(x) = \dfrac{2}{x^2} + 4x^2 + 6x + 1$

2. [**4 points**] Let $h(x) = u(x) \cdot w(x)$. Find $h'(x)$. (**Don't Simplify.**)