

You have 20 minutes to complete the quiz. No calculators.

Name: _____

1. (2 points) Find y' if $ye^y = x$.2. (3 points) Let $y = e^{\sin x}$.(a) Find the differential dy .(b) Evaluate dy for $x = 0$ and $dx = 0.1$.(c) Use part (b) to approximate $e^{\sin(0.1)}$.