

Name: _____
AP Calculus AB

Date: _____
Ms. Loughran

1. Let f be the function defined by $f(x) = xe^{1-x}$ for all real numbers x .
 - (a) Find each interval on which f is increasing.
 - (b) Find the x -coordinate of each point of inflection of f .
 - (c) Using the results found in parts (a) and (b), sketch the graph of f in the xy -plane.