

APPM 2350 Final Exam  
Saturday, Dec 11th 7:30am-10am 2021

Show all your work and simplify your answers. Answers with no justification will receive no points. No calculator, smartphone, smartwatch

the following questions. You can  
derivatives.



(9, 16) TJ/F53 10.9091

al function) (no credit will be given). Use ONLY the  
to answer the following questions:

work justifying your estimate.

the point  $(9, 16)$  in the direction  $3 + 4j$ . For credit, show work

stifying or explaining your

Problem 3(25 points)

A metal plate lies in the  $xy$ -plane in the region  $x = 4 - y^2$   
(i.e the region in quadrants I and IV bounded by the