

Name: _____

QUIZ 15 

MATH 200
October 10, 2024


1. This problem concerns the function $f(x) = (x^2 - 2)e^{2x}$.

(a) Find the critical points of f .

(b) Find the intervals on which f increases and on which it decreases.

(c) Use your answer from part (a) to identify the locations (x values) of any local extrema of f .

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QUIZ 15 

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1. This problem concerns the function $f(x) = e^{(x^4 - 8x^2)}$.

(a) Find the critical points of f .

(b) Find the intervals on which f increases and on which it decreases.

(c) Use your answer from part (a) to identify the locations (x values) of any local extrema of f .