

MATH 101 (141)  
QUIZ # 5

NAME: ..... ID. #: .....

---

Q1. Let  $f(x) = x\sqrt{4 - x^2}$ .

- a) Find the domain of  $f(x)$ .
- b) Find the open intervals on which the function is increasing and decreasing.
- c) Identify the function's local and absolute extreme values, saying where they occur.