

Math 8  
Winter 2020

Written Homework  
Assigned Wednesday, March 4

**Note: This Written homework is due at 10:00 AM on Friday, March 6.**

Note: Standard (not preliminary) written homework is graded on your work and your explanations, not just on your answer.

Explanations are important for many reasons. Being able to communicate what you know shows a depth of understanding beyond that of being able to get the right answer to a problem. Doing the mental work of putting explanations into words helps create that depth of understanding. On exams, we will grade your work and not just your answers, so this is good practice for taking exams.

For all these reasons, be sure to: show all your work; explain your reasoning; use clear English; write neatly so all this effort does not go to waste.

**Assignment:** Find the largest and smallest values of the function  $f(x, y) = xy$  on the region  $4x^2 + y^2 \leq 4$ , and the points in the region at which those values are reached.