

Written HW11 – MATH 2501 Fall 2020

Due by 13 October for timely completion credit

Full credit on these problems require a fully symbolic derivation of the solutions.

1. Two positive numbers x and y sum to 8. For which values of x and y is the quantity xy^2 maximized?
2. A rectangle is inscribed with its base on the x -axis and its upper corners on the parabola $y = 9 - x^2$. What are the dimensions of the rectangle with greatest area?