Math 2413 – Calculus I ***Homework*** (sec 3.4 – 3.5)

Professor Khoury

1. Determine the intervals on which the graph of the function is concave upward or concave downward and point of inflection



1. The USPS will accept a box for domestic shipment only if the sum of its length and girth (distance around) does not exceed 108 in.
2. What dimensions will give a box with a square end the largest possible volume?
3. Graph the volume of a 108 in. box (length plus girth equals to 108 in.) as a function of its length and compare what you see with your answer in part (*a*).

