Formative Assessment #29 – Optimization Problem

C6.1: I can solve an optimization problem drawn from a variety of applications Using calculus techniques.

A supermarket employee wants to construct an open-top box from a 16 inch by 30 inch piece of cardboard. To do this, the employee plans to cut out squares of equal size from the four corners so the four sides can be bet upwards. What should the dimensions of the squares be in order to create a box with the largest possible volume?