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- e. Draw and label your graph shown on the graphing calculator in the space below.

- f. Which portion of the graph will be utilized pertaining to volume? Why?

- g. What are the potential values of x ?

- h. What is the maximum volume capacity of the box?

- i. What size square should be cut out of the corners of the metal to create a box with the maximum volume?

- j. What are the dimensions of the box with the greatest volume?

- k. Create a box template out of regular paper or cardstock.
Note: While the open top metal box will have its edges welded together, the open top cardstock template box will have its edges taped together.

