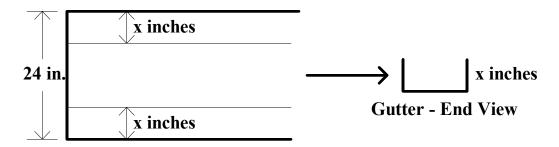
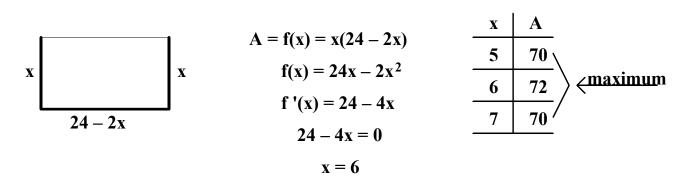
## Calculus Worksheet #6 Unit 1 Selected Solutions

Use calculus to solve the following problems. Show your work and your solutions neatly organized. Express any irrational solutions rounded to three significant digits.

4. A piece of sheet metal 24 inches wide is to be bent to form a gutter with a rectangular cross section. Please refer to the diagram. If x represents the width that is bent up along each edge, then what value of x corresponds to a maximum cross sectional area?





Six inches should be bent up along each edge.