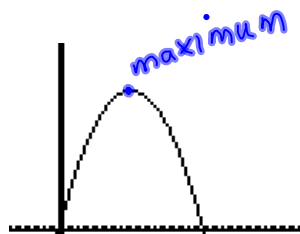
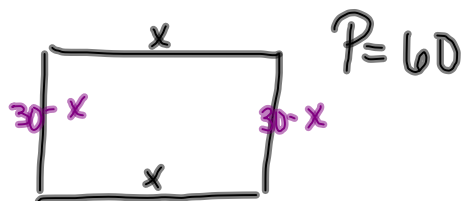


The perimeter of a rectangle is 60 meters.

- find a formula for the area of the rectangle when the length is x
- Use a graphing utility to graph the area
- Use the graphing utility to approximate the maximum area of the rectangle and the dimensions that yield the maximum area.



Area: $L \cdot W$
 $= x \cdot (30-x)$

$A = 30x - x^2$
 $y = 30x - x^2$

length 15, area 225 width $30-x$

length of 15 $\frac{15}{2}$ $30-x = w$
 maximum area of 225 $y = 30x - x^2$

$P = 2L + 2W$

$60 = 2x + 2w$
 $-2x \quad -2x$

$60 - 2x = \frac{2w}{2}$

Oct 3-8:27 AM

pg 96 - 98 # 2 - 12 even, 24-36 even,
 85, 108, 110, 112, 113

Sep 15 - 11:05 AM