

Optimization Activity

The first problem: There is a Norman window, which has the shape of a rectangle surmounted by a semicircle. If the perimeter of the window is 20 feet (ft), find the dimensions of the window so that the greatest possible amount of light is admitted.

Step 1: The first step that needs to be done is to identify all given quantities and all quantities to be determined and to make a sketch. In regards to the known quantities, the perimeter of the window is 20 ft. In regards to the unknown quantities, x will be the width, y will be the height, and $\frac{x}{2}$ is the radius. The area (what needs to be maximized) is also unknown and will be represented by A . A picture for this problem is given as the one below.



Step 2: In this step, a primary equation for the quantity that is to be maximized or minimized should be written. Since the goal is to maximize the area of the window, an equation for area is needed. This is

$$A = A = y + \frac{\pi}{2} \left(\frac{x}{2}\right)^2$$

Step 3: During the third step, the primary equation is reduced to having a single independent variable. In this case, this will involve the use of a secondary equation that relates to the independent variables of the primary equation. The secondary equation that will be needed is for the perimeter of the window, which is

$$20 = 2y + x + \pi\left(\frac{x}{2}\right)$$

This equation can then be used to find that

$$y = \frac{20 - x - \frac{\pi}{2}x}{2}$$

Now the area formula can be written as

$$A = x\left(\frac{20 - x - \frac{\pi}{2}x}{2}\right) + \frac{\pi}{2} \left(\frac{x}{2}\right)^2$$

This can then be simplified to

$$A = \frac{x}{2} (20 - x^2 - \frac{\pi}{2}x^2) + \frac{\pi}{2}x^2$$

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