

Quiz 2: Question 34

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The question says that the shape of the garden will be a rectangle. A plot of the rectangular garden is shown below.

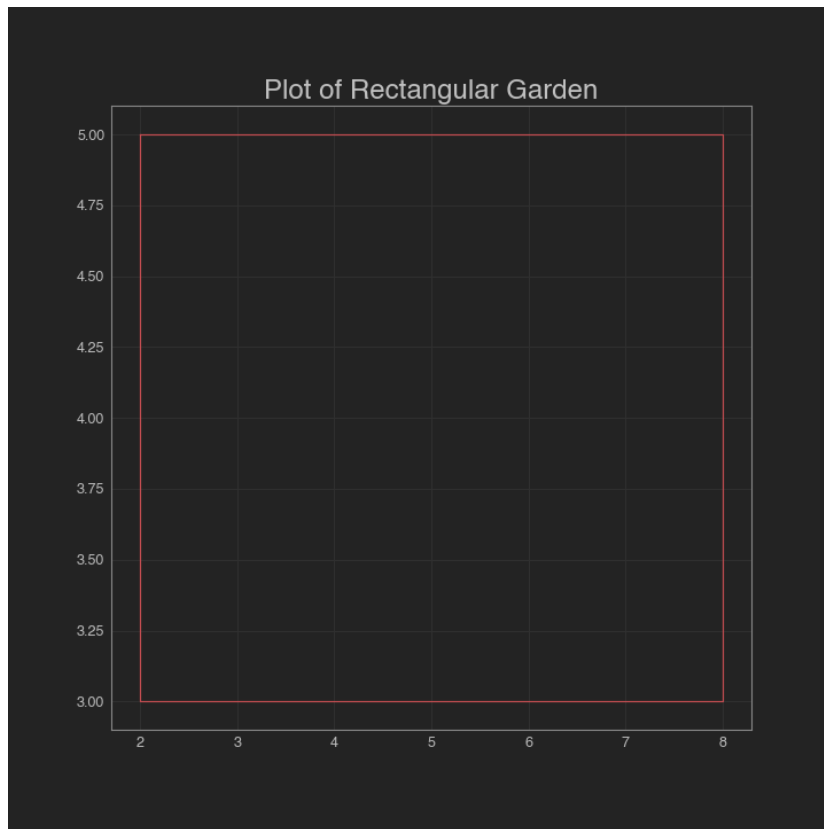


Figure 1: Rectangular Garden

As seen from above, one can easily see that the length of the garden is 6 units and the width of the garden is 2 units. Calculation of the rectangular garden's

area is shown below.

$$A = l * w \tag{1}$$

$$A = 6 * 2 = 12\text{units}^2 \tag{2}$$

Now that the area has been calculated, we must divide the garden's area by the area that each bag of mulch covers.

$$n_{\text{bags}} = \frac{A_1}{A_2} \rightarrow \frac{12}{6} = 2\text{bags} \tag{3}$$

$$\tag{4}$$

Finally, we multiply the number of bags by the cost of each bag.

$$\text{total} = n_{\text{bags}} * \text{cost} \tag{5}$$

$$\text{total} = 2 * 5.25 \tag{6}$$

$$\text{total} = \$10.50 \tag{7}$$