Geometry in Design: Question 2

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- i Find the total perimeter of the grazing area.
- ii If the cost of the fence is \$ 7.95 per linear foot, how much will it cost to place a fence around the entire grazing area?
- iii Suppose the grazing area is 1/60 of an industrial grazing area for a major industry farm. What is the total cost to build a fence around the entire land of a large scaled farm?

Part I Solution:

$$A = \frac{1}{2}aP\tag{1}$$

$$a = 10 \tag{2}$$

$$A = 500 \tag{3}$$

$$500 = \frac{1}{2}10P\tag{4}$$

$$P = \frac{500}{5} \tag{5}$$

$$P = 100 \tag{6}$$

Part II Solution:

$$Cost = \$7.95 * 100 = \$795$$
 (7)

Part III Solution:

$$TotalCost = 60 * Cost = 60 * 795 = $47,700$$
 (8)