

Applications of Double Integrals



Question

The figure shows a steel semi-circular plate described by a region \mathcal{R} , along with four marked points. Which of the points could be (\bar{x}, \bar{y}) where

$$\bar{x} = \frac{1}{m} \iint_{\mathcal{R}} x \, dA, \quad \bar{y} = \frac{1}{m} \iint_{\mathcal{R}} y \, dA, \quad m = \iint_{\mathcal{R}} dA?$$

