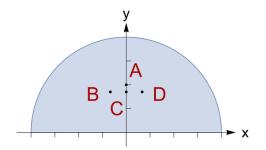
## Applications of Double Integrals



## 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

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



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