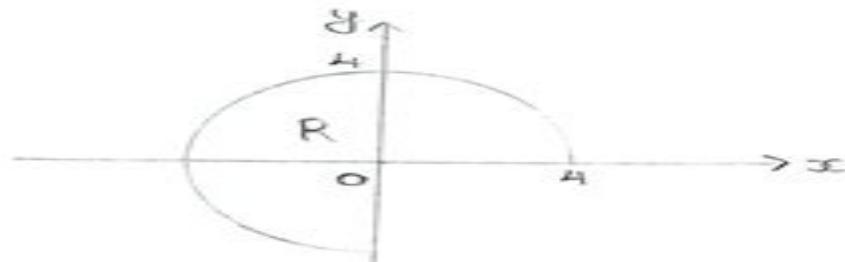


Exercises : 15.4

A region R is shown. Decide whether to use polar coordinates or rectangular coordinates and write $\iint_R f(x, y) dA$ as an iterated integral, where f is an arbitrary continuous function on R .

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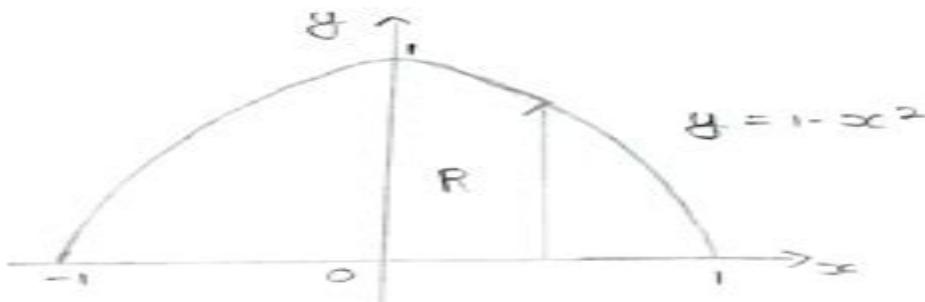


The region R is more easily described by polar coordinates:

$$R = \{(\rho, \theta) \mid 0 \leq \rho \leq 4, 0 \leq \theta \leq \frac{3\pi}{2}\}$$

$$\iint_R f(x, y) dA = \int_0^{3\pi/2} \int_0^4 f(\rho \cos \theta, \rho \sin \theta) \rho d\rho d\theta$$

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Solution Manual Wesolvethem,2016-11-07 Solutions designed as lessons to promote better problem solving skills for college STEM majors Provided by WeSolveThem.com *Complete Solutions Manual, James Stewart, Multivariable Calculus, Metric Version, 7th Edition*,2012 *Complete Solutions Manual for Multivariable Calculus, Seventh Edition* Dan

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