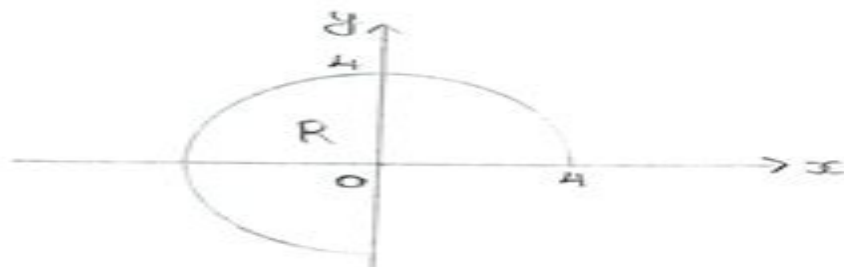


Exercises : 15.4

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 .

1)

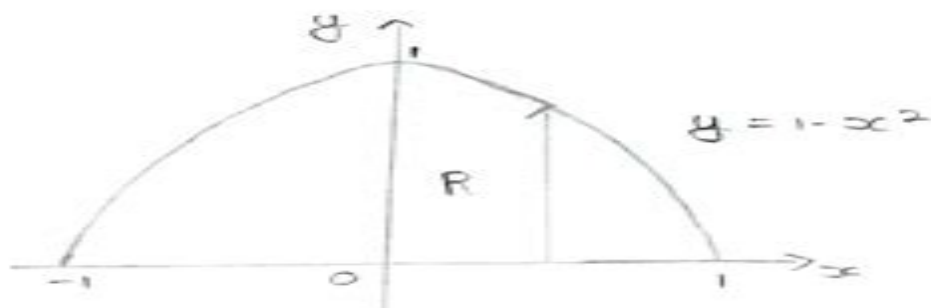


The region R is more easily described by polar coordinates:

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

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

2)



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William Thomas Lowndes



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