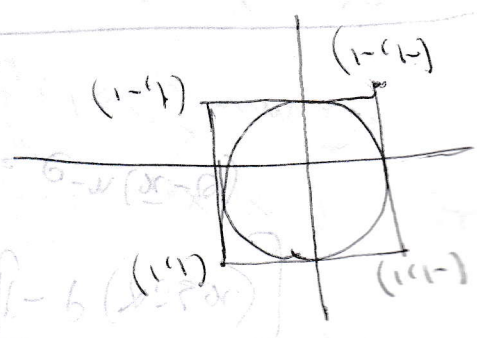


ii) If $x_0^2 + y_0^2 \leq 1$, then $(x_0, y_0) \in A$

d) $A = \{(x, y) : x^2 + y^2 \leq 1\}$

$f(x, y) = \frac{1}{\pi} \cdot x^2 + y^2 \leq 1$



Now, (x, y) is in $U(-1, 1)$

i) Draw samples x_0, y_0 from $U(-1, 1)$

ii) If $x_0^2 + y_0^2 \leq 1$, then $(x_0, y_0) \in A$

5. Let X_1, X_2, \dots, X_n be i.i.d. $N(0, 1)$

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