

(c) $P(A) = \int_0^1 (1-x^2) dx = \chi - \frac{\chi^3}{3} \Big|_0^1 = 1 - \frac{1}{3} = \frac{2}{3}$ 1.16 No. Because the sample space of can be infinite. Easily, we know that B is not impossible event Like, we want to take I from [o,1], this event may happen. However, we take a number from $[0,\frac{1}{2}]$, $(\frac{1}{2},1]$ both equals to $\frac{1}{2}$, that is to mean $P(\frac{1}{2}) = 0$ A By considering the opposite side, A is also not inevitable case