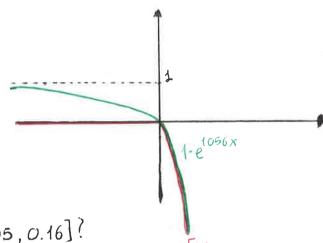
Esercizio Statistica 27/03/2019

Si consideri la spezio probabilizzato (IR, B(IR)) e sia data la seguente funcione di probabilità $F(x) = 1 - \exp(-\lambda x)$ se $x \ge 0$ e F(x) = 0 altrimenti.

$$\lambda = 4.056$$

$$F(x) = \begin{cases} 1 - e^{-\lambda x} & x \ge 0 \\ 0 & \text{altrimenti} \end{cases}$$



$$P_{r}((0.005, 0.16.1) = F(b) - F(a) = F(0.16) - F(0.005)$$

$$= 0.1554573 - 0.005266085$$

$$= 0.1501912$$

$$P_{V}([-0.285, 0.285)) = F(b) - F(a) = F(0.285) - F(-0.285)$$

$$= 0.2598926 - 0$$

$$= 0.2598926$$

$$Pr(A_1) = Pr(10.252, 0.535)) + Pr(10.708, 2.018)) \rightarrow A_1 \in \text{formato da intenalli}$$

$$= (F(b) - F(a)) + (F(b) - F(a))$$

$$= F(0.535) - F(0.252) + F(2.018) - F(0.708)$$

$$= 0.6316171 - 0.2336467 + 1 - 0.5265211 = 0.6714493$$

$$P_{V}(Az) = P_{V}((0.252,0535)) + P_{V}((0.708,2.018)) + P_{V}((0.005,0.16))$$

= 0.4316171 - 0.2336467 +1 - 0.5265711 + F(0.16) - F(0.005)
= 0.6714493 + 0.1554573 - 0.005266085 = 0.8216405