

① Consider a PPP ϕ in \mathbb{R}^2 with intensity λ . Consider a ring $A: a \leq r \leq b$.

(a) What is the expected number of points falling in A ? [1 mark]

(b) What is the probability that there are no points in A ? [1.5 mark]

(c) What is this distribution of the nearest point in A from the origin? [2.5 mark]