6. Consider rolling two fair dice one at a time. The sample space of this experiment was given during the lectures on set theory. Let $\mathcal{P}_{\mathcal{S}}$ represent the power set on \mathcal{S} . Finally, define the function P by

$$P(A) = \frac{C(A)}{36}$$
 for $A \in \mathcal{P}_{\mathcal{S}}$.

Prove that P(A) satisfies Kolmogorov's Axioms.