Stochastic processes: Quiz

March	10.	2025

Questi	ion. Name a discrete memoryless distribution.
	em. Students arrive to a classroom according to a Poisson process with rate $\lambda > 0$. The professor to wait for 2 minutes. If at least one student has entered the classroom, the lecture begins. If no fessor waits until the first student arrives then starts.
1. W	What is the probability that the lecture doesn't start within 2 minutes?
2. W	What is the expected future waiting time given that the professor has already waited for 3 minutes?
3. W	What is the probability that the lecture begins within 5 minutes but past 2 minutes?

