Exercise. CTMCs with absorbing states.

A network service is based on a parallel redundant system with two devices.
Failure times of both devices can be modeled by independent and exponentially distributed random variables with mean $1/\lambda$. There is a "single repair facility" and repair times can be modeled by independent and exponentially distributed random variables with mean $1/\mu$. The system is FAILED when both devices are failed.
Evaluate the reliability and the Mean Time To Failure (MTTF) of the system, considering an initial state with both devices working.