Availability problems

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1. Calculate the reliability, R, of a system at time $t = 20$ days assuming that it experiences 0.1 failures per day.

2. A system has 5 failures over the course of a year. Calculate the MTBF in days.

3. A system has an MTBF of 150 days. How many faults may be expected over the course of two years.

4. Calculate the inherent availability, A_i, of a system with a mean time between failure of 120 days and a mean time to repair of 12 hours.