

The probability that she is idle is the probability that the time to repair is greater than the time until the other pc fails.

Let X denote the time until a pc fails

$$X \sim \exp\left(\frac{1}{50}\right).$$

Let Y denote the time to repair a pc

$$Y \sim \exp\left(\frac{1}{3}\right).$$

$$p(\text{Alre is idle}) = p(X < Y) = \frac{\frac{1}{50}}{\frac{1}{50} + \frac{1}{3}}$$

$$= \frac{3}{53}$$

$$= 0.0566$$