Problem 2.2

Q: (a) Mean fine between failures

Solution (a) $E(x) = \frac{1}{x} = \frac{1}{0.01} = 100 hours$

(b) p(x>50) = ?

Solution P(xxo)= e-250

(c) P(X>50 (X>40)

= P(X>40+10 (X>40)

(d) P(x<15/x>10)

 $f(x > x) \qquad f(x) = \lambda e^{-\lambda x}$