17-05-2019

X = Y esperantial con parametr  $\lambda_1 = 0.7$   $\lambda_2 = 1.6$ Sia U: min  $\{X, Y\}$ 

 $P(X\pi t) = e^{-\lambda_1 t}$   $P(Y\pi t) = e^{-\lambda_2 t}$ 

P(U 7/t) = P(X 7/t, Y 7/t) = P(X 7/t) P(Y 7/t)=  $e^{-(\lambda_1 + \lambda_2)t}$ 

2109277 210ME - 1-e-(1/1+/2)t

IN R

1) function(a) { pexp(u, 0.7+1.6) } 2

2)  $P(U \times 1806 \mid X \neq 0.566) = 2434302)$   $= P(\times \pi + 1) P(Y + 2 + 1) = P(Y + 1)$   $= P(\times \pi + 1)$   $= P(\times \pi + 1) P(Y + 2 + 1)$   $= P(\times \pi + 1) P(Y + 2 + 1)$   $= P(\times \pi + 1) P(Y + 2 + 1)$   $= P(\times \pi + 1) P(Y + 2 + 1)$  = P(Y + 1) P(Y + 2 + 1) = P(X + 1) P(Y + 2 + 1) = P(X + 1) P(Y + 2 + 1) = P(X + 1) P(Y + 2 + 1) = P(X + 1) P(Y + 2 + 1) = P(X + 1) P(Y + 2 + 1) = P(X + 1) P(Y + 2 + 1) = P(X + 1) P(Y + 2 + 1) = P(X + 1) P(X +

= 0.2+53809

3) P(U70.5661X70.306)

 $\frac{e^{-2.3\cdot0.566}}{e^{-0.4\cdot0.306}} = 0.4782604$