```
is mproduée sightablisser es
  P(X \leq x) = F_{x}(x) = 1 - e^{-\lambda x}
                                                  - dystrybuaila
   EX = \frac{1}{\lambda} - Sneotimo
                                                 F_{x}(1500) = 1 - e^{-1.5} = 0.78
 Tuloj \frac{1}{2} = 1000 \Rightarrow \lambda = \frac{1}{1000}
 X_1, X_2 - \alpha \alpha sy train involved; F_{X_1}(x) = F_{X_2}(x) = F_{X_2}(x)
  4- vas ipas attache
     objetmente jedussisanie injensia vertouel
a) potopreure nouvelegne
                                                      (utroch bydeie processat took altresper)
altresp bydeie swiecie randwa o altresper
crane iyala)
                                4= mox {x1x2}
        jereli moxymixxy sy ito(x184 v x884)
 # Fy(y) = P(Y &y) = P(wax / x1, x24 & y) = P(x1 & y x2 & y) = P(x1 & y) P(x2 & y) =
= F_{xy}(y) \cdot F_{xy}(y) = (F_{x}(y))^{2}
                                                                       us virnice mégalie à
   cryle y was northand dainy dystryburously
F_{\gamma}(\gamma) = (1 - e^{-\gamma \gamma/2})^2 \quad \text{also } \gamma = \frac{7}{1000}
P(47/1500) = 1 - P(4 < 1500) = 1 - F_4(1500) = 1 - (F_4(1500))^2 = 1 - (0.78)^2 = 0.4
6) potgreuie veregouse
                                      7= win {X1,X2} (ustool bepolie processat tylko de crape
prepaleura n'e pienvinej zavoliti)
       jeseti min fx1/x2) > y 160 (x1>y 1 x2>y)
Fy(y)= P(4 &y)= + (min {x, x2} &y)= 1-P(min {x, x2} >y)= 1-P(x, 7y 1 x27y)=
= 1 - P(x_1 > y)P(x_2 > y) = 1 - ((1 - P(x_1 \le y))(1 - P(x_2 \le y))) = 1 - (1 - F_{x_1}(y))^{2}
                           Fy(y)=1-(1-Fx(y))
P(47/1500) = 1 - F_Y(1500) = 1 - (1 - (1 - F_X(Y))^2) = 1 - (1 - (1 - 0.178)^2) = 0.05
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