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Infoteam

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 $= \begin{cases} 3x_1^2 & 0 < x_1 < 1 \\ 0 & sand \end{cases}$ 

 $f_{2}^{1}(x_{11}x_{2}) = \begin{cases} \frac{1}{\lambda_{1}} & 0 < x_{2} < \frac{x_{3}}{2} \\ 0 & sont \end{cases} = \begin{cases} \frac{2}{\lambda_{1}} & 0 < x_{3} < \frac{x_{4}}{2} \\ 0 & sont \end{cases}$ 

 $f^{(x_1,x_2)} = f^{(x_1)}f_1^2(x_1,x_2) = \begin{cases} 6x_1 & 0 < x_1 < 1 < 0 < x_2 < 1 < 0 < 1 < 0 < x_2 < 1$ 

b)  $P(x_1, x_0, 3) = \int_{-\infty}^{\infty} \int_{0,3}^{\infty} f(x_1, x_1) dx_1 dx_2 dx_1$ 

 $= \int_0^{\infty} \int_{0/3}^{\frac{\pi}{2}} 6x_1 dx_2 dx_3$ 

 $= \int_{6}^{1} 6x_{1} x_{2} \Big|_{X_{2}=0,3}^{X_{2}=\frac{X_{1}}{2}}$ 

 $= \int_{0}^{1} 3x_{1}^{2} - 6x_{1} \cdot 0.3 \, dx_{1}$ 

 $= \frac{4}{3} \left[ x_1^3 - 3x_1^2 \cdot 0.3 \right]_0^{1}$ 

1-3.6,3 = 0,1



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