:3 / 5/4 \*

II) 
$$l_{engl} = \begin{cases} 2 & o(x(y(1))) \\ o & else \end{cases}$$

a)  $l_{engl} = l_{engl} l_{eg}$ 
 $l_{engl} = \int l_{engl} l_{eg} = \int l_{eg} l_{eg} = 2 l_{eg} l_{eg} l_{eg} l_{eg} = 2 l_{eg} l_{eg} l_{eg} l_{eg} l_{eg} l_{eg} = 2 l_{eg} l_{e$ 

TV) fougle 6 n 
$$(2 \times 1)$$
,  $(2 \times 1)$  else

 $\begin{cases}
k_{xy} = \int_{0}^{2} k_{xy} \cdot k_{yy} \\
k_{xy} = \int_{0}^{2} k_{xy} \cdot k_{yy}
\end{cases}$ 
 $\begin{cases}
k_{xy} = \int_{0}^{2} k_{xy} \cdot k_{yy} \\
k_{xy} = \int_{0}^{2} k_{xy} \cdot k_{yy}
\end{cases}$ 
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k_{xy} = \int_{0}^{2} k_{xy} \cdot k_{xy}
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k_{xy} = \int_{0}^{2} k_{xy} \cdot k_{xy}
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 $\begin{cases}
k_{xy} = \int_{0}^{2} k_{xy} \cdot k_{xy}
\end{cases}$ 
 $\begin{cases}
k_{xy} = \int_{0}^{2} k_{xy}
\end{cases}$ 
 $\begin{cases}
k_{xy} =$ 

(21 3 2 3 -614 0,1,2,3 ; injuit X ( jet polen ( il  $P(x') = P(x = x') = \frac{\binom{3}{x}\binom{2}{y}\binom{3}{4-x-y}}{\binom{8}{4}}; \quad x = 0, 1, 2, 3 \\ y = 0, 1, 2 ; 1 \le x+y \le \frac{4}{4}$ P(X+Y<2) = P(X=0,Y=0)+P(X=0,Y=1)+P(X=0,Y=2)+ p(X=1,Y=0)+p(X=1,Y=1)+p(X=2,Y=0)  $= \frac{2+3+3+18+9}{70} = \frac{35}{70} = \frac{1}{2}$ 

Perry)={24ny o(n(1,0(y(1), n+y(1 6000)); X -wp(X+Y(1/2)= (2 (24ny dy dn  $= 24 \int_{-\infty}^{\infty} \chi \int_{-\infty}^{\infty} \chi dy d\chi$  $\frac{1}{y^{2}} = \frac{1}{2} - x = \frac{1 - 4x^{2}}{2}$  $= 3 \int_{0}^{\frac{1}{2}} \chi(1-4x^{2}) dx = 3 \left(\frac{x^{2}}{2} - x^{4}\right)^{\frac{1}{2}}$  $= 3\left(\frac{1}{8} - \frac{1}{16}\right) = \frac{3}{16}$ -)  $f_{\text{on}} = \int_{x}^{24} 24xy \, dy = 24x(\frac{y^{2}}{2}) = 12xy^{2} \Big|_{x}^{1-x}$  $= 12x (1-x)^2$ => fem = (12x(1-x)2 0(x()  $C) p(Y < \frac{1}{2} | X = \frac{3}{4}) = ?$ : (5)10 = 17 1, fig(x) In  $\Rightarrow P(Y \leq \frac{1}{8} | X = \frac{3}{4}) = \int_{0}^{1/8} \frac{24}{(\frac{1}{4})^2} dy = 32 \frac{4^2}{2} = 16y^2 \Big|_{0}^{1/8} = 16(\frac{1}{64}) = \frac{1}{4}$