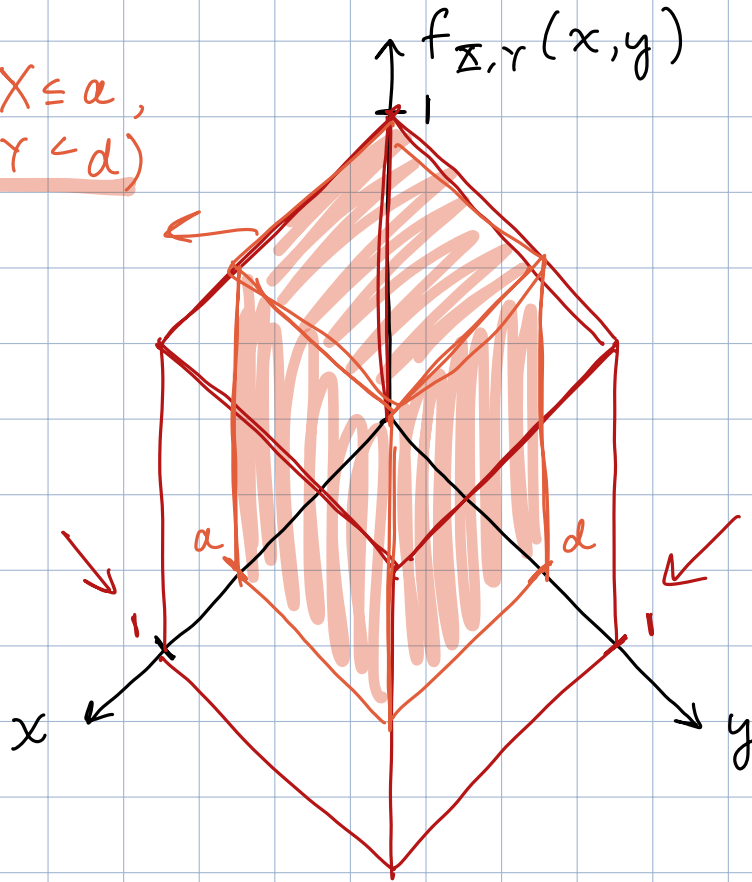


prob $P(0 \leq X \leq a, 0 \leq Y \leq d)$

$$f_{X,Y}(x,y) = 1$$

for $0 \leq x \leq 1$
 $0 \leq y \leq 1$

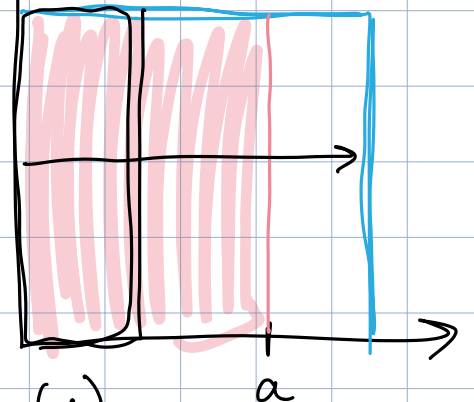
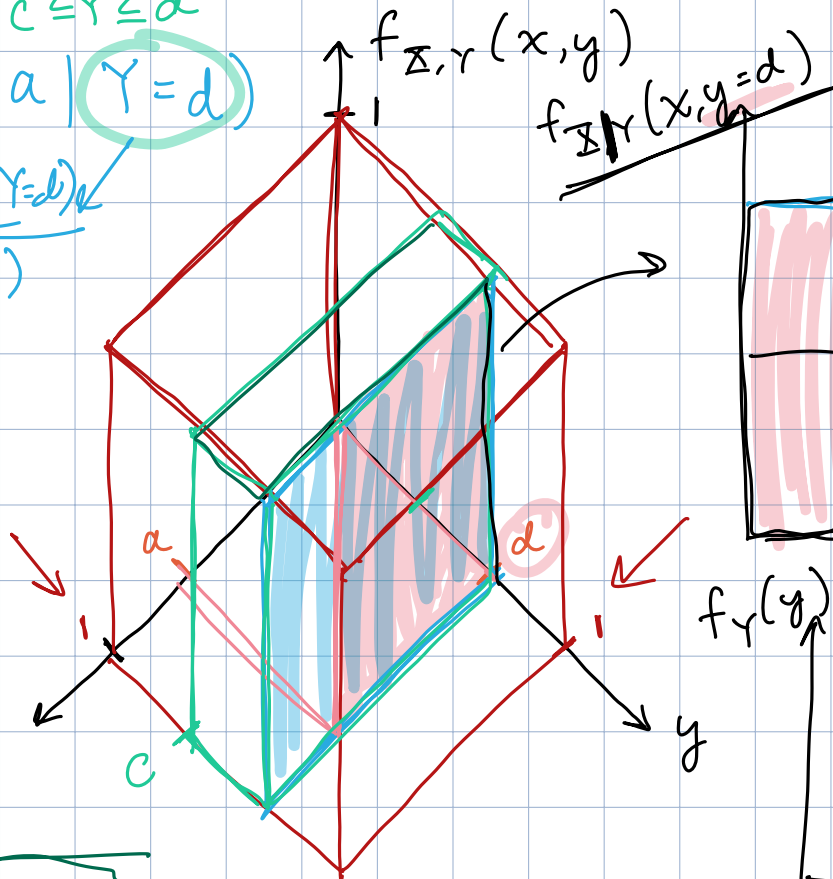


$c \leq Y \leq d$

$$P(0 \leq X \leq a | Y=d)$$

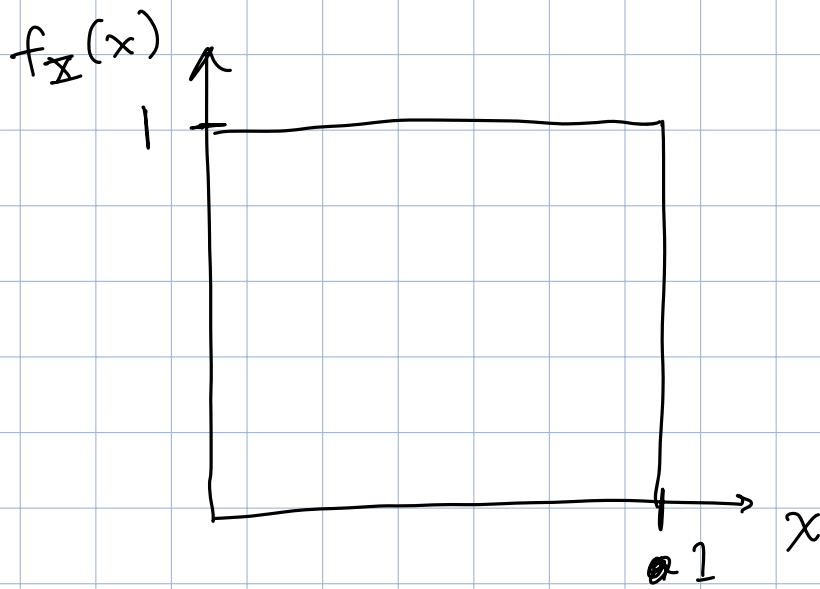
$$\frac{P(0 \leq X \leq a, Y=d)}{P(Y=d)}$$

$= 0$



$$\frac{f_{X,Y}(x,y)}{f_Y(y)}$$

$$f_Y(y)$$



special case
 $X \perp Y$ in
this pdf,
so
 $f_X(x) = 1 =$
 $f_{X|Y}(x|y)$

