Jag X - wereneparypa Y - breme  $\int x_i y(x_i y) = \frac{1}{1000} (x + 5y + 10)$   $X \in [-10; 80]$   $Y \in [0;2]$  $\int x_i y(x_i y) dx dy = 1$ 

a) 47 l

18 (471) = | 1 / 2000 (x+3y+10) dy dx
-101

b) Ano T = 1.5 wants  $e \log_{10} t^{2} = 0$ If  $(x < 0.14 = 1.5) = \frac{3 \times y(x, 1.5)}{3 \times y(x, 1.5)}$   $\int_{-10}^{20} |x| = 1.5 = \frac{3 \times y(x, 1.5)}{3 \times y(x, 1.5)}$ If  $(x < 0.14 = 1.5) = \frac{3}{3} \times y(x, 1.5) = \frac{3}{3} \times y($ 

6) P(A1B) = P(B)  $\int x_{i,y}(x,y) \approx \mathbb{P}(X=x)$ Jy1x (y1x = 15) = Jxy(15,y)

Jx115) fxy(15,y) = 1 (15+5y+10) /x/z/= / fxy/z,y/dy = = 12 1 (X+5y+10)dy Hampane  $f_X(15) = 7$  u yenobuasa unornous  $f_Y(x)(y|x=15)$   $f(Y(X=15)) = \int_0^x y \cdot f(y|x) \cdot y(x) = 15/dy$