



Let
$$X = \begin{cases} 0 & \frac{1}{n} \\ n & \frac{1}{n+1} \end{cases}$$

$$\int_{X}^{a} = \frac{1}{12}n^{a} + \frac{1}{6}n$$

let
$$Y_m = \{0, ..., 0, ..., n, ..., n\}$$

We war, X
 $\Rightarrow uvg(Y) = \frac{1}{12} n d + \frac{1}{4} n$

Let
$$X = \begin{cases} \frac{1}{m} & x \in [0, m] \\ 0 & else \end{cases}$$

$$\int_{0}^{m} \frac{1}{x} dx = \frac{1}{m} \int_{0}^{m_{2}} x^{2} dx$$

$$\int_{0}^{m_{2}} \frac{1}{x} dx = \frac{1}{m} \int_{0}^{m_{2}} x^{2} dx$$

$$\int_{0}^{m_{2}} \frac{1}{x} dx = \frac{1}{m} \int_{0}^{m_{2}} x^{2} dx$$

$$\int_{0}^{m_{2}} \frac{1}{x} dx = \frac{1}{m} \left[\frac{1}{2}\right]_{0}^{m_{2}} = \frac{1}{m} \left[\frac{1}{2}\right]_{0}^{m_$$

1 m3

$$\frac{\partial^2 \times \dot{\partial}}{\partial x} = \left[\frac{\partial^2 \cdot \dot{\partial}}{\partial x} \right] = \left(\frac{\partial^2 \cdot \dot{\partial}}{\partial x} \right) = \frac{\partial^2 \cdot \dot{\partial}}{\partial x} = \frac{\partial^2 \cdot \dot{\partial}}{\partial$$

assume X, Y ill independent # F (x+) MAN: = # 50 50 (xx y) tx (x) by body = S (S x fx(2) fx (y) dx + Sytx(a) fx(y) day dy = vtx(v) fx(max = fx(x) Sxfx(x) Mx Jux fx(y)dy + Jy fx(y)dy =) fy (y) (ux + y) dy E[x" · M] = S xy bx (x) by (y) dady = Sy (Sx bx(x) day) dy
- mx my