Hill 1 2 2 k 3

PS5Bii

OFF ON SIG

$$AP = M \cdot P$$

$$At = A + M \cdot O = O \cdot O$$

$$+2 + M + N \cdot O = O \cdot C$$

$$+2 + M + N \cdot O = O \cdot C$$

$$+3 + M \cdot O = O \cdot C$$

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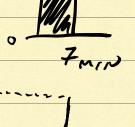
$$+4 + M \cdot O = O \cdot C$$

$$+4 + M \cdot O = O \cdot C$$

$$+4$$

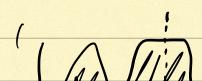
$$T_{2-3} = T_1 + T_2 = 1 (1 + M)$$

$$\begin{bmatrix} 0 \\ 0 \\ -1 \\ 0 \end{bmatrix} = M_{-5} \begin{bmatrix} 7_1 \\ \overline{7}_2 \\ \overline{7}_5 \\ \overline{7}_4 \end{bmatrix}$$

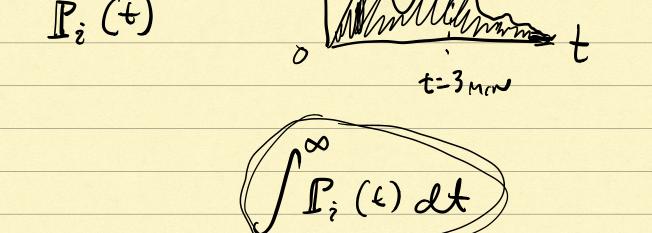


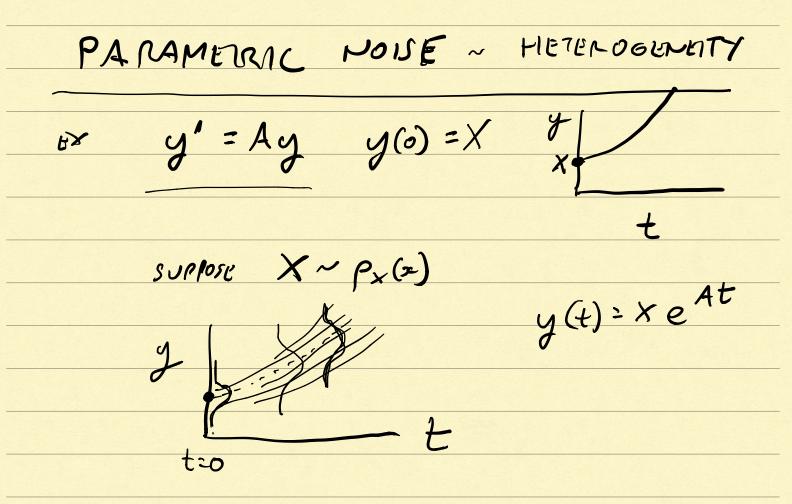
50%

ASIDEZ



IDMIN



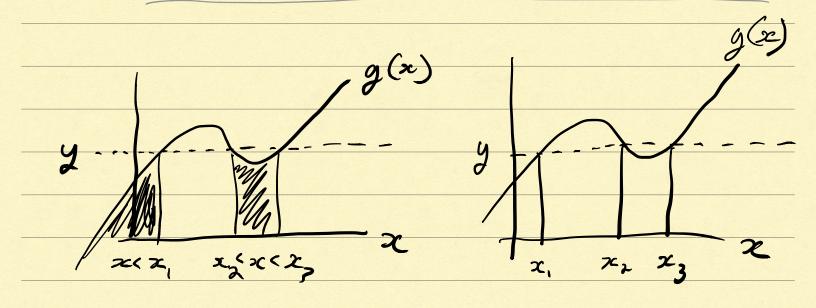


WHAT IS $y \sim p_y(y)$?

GIVEN A MANOON VANABLE X ~ Px(x),

SUPPOSE Y = a(x), THEN WHAT IS p(y)?

SUPPOSE Y= cX $P_{\mathbf{y}}(g) = c \cdot P_{\mathbf{x}}(\mathbf{x})$ GENERAL FUNCTION DEFINE IND OX SET OFY $Ly = \{x : g(x) \leq y\}$



Px(2)

$$F_{Y}(y) = P(Y \leq y)$$

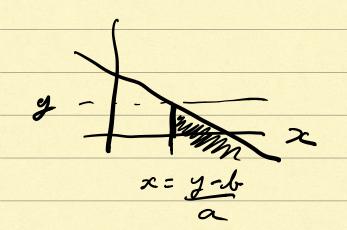
$$= P(z \in I_{y}) = \int_{I_{y}}^{\rho(x)} dx$$

$$tx y = ax + b$$

$$F_{Y}(y) = F_{x}(y-b)$$

$$p_Y(y) = dF_Y(y) = \int_{a}^{b} p_X(y-b)$$

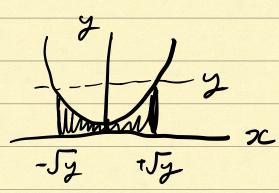
$$Y=2X$$



$$F_{\gamma}(y) = 1 - F_{\chi}(y-b)$$

$$P_{Y}(y) = -\frac{1}{a} P_{X}(y-k)$$

$$P_{Y}(y) = \left|\frac{1}{a}\right| P_{X}\left(\frac{y-b}{a}\right) \quad a \in \mathbb{R}$$



$$F_{\gamma}(y) = \left(F_{\chi}(Jy) - F_{\chi}(Jy)\right) y \ge 0$$

$$y < 0$$

$$P_{Y}(y) = \begin{cases} P_{x}(J_{y}) \cdot 1 + P_{x}(J_{y}) \cdot 1 \\ 2J_{y} \end{cases}$$

GENERAL FORMULA

LET
$$X \sim p_X(x)$$
 and $Y = g(x)$

$$p_{Y}(y) = \sum_{k} p_{X}(x_{k}(y)) \cdot \left| \frac{dx_{k}}{dy} \right|$$

WHERE EXES IS THE PRE-IMAGE OF 9

