ASE 
$$(\hat{\theta}) = Van(\hat{\theta}) + Bias$$

NSE  $(\hat{\theta}) = Van(\hat{\theta}) + Bias$ 

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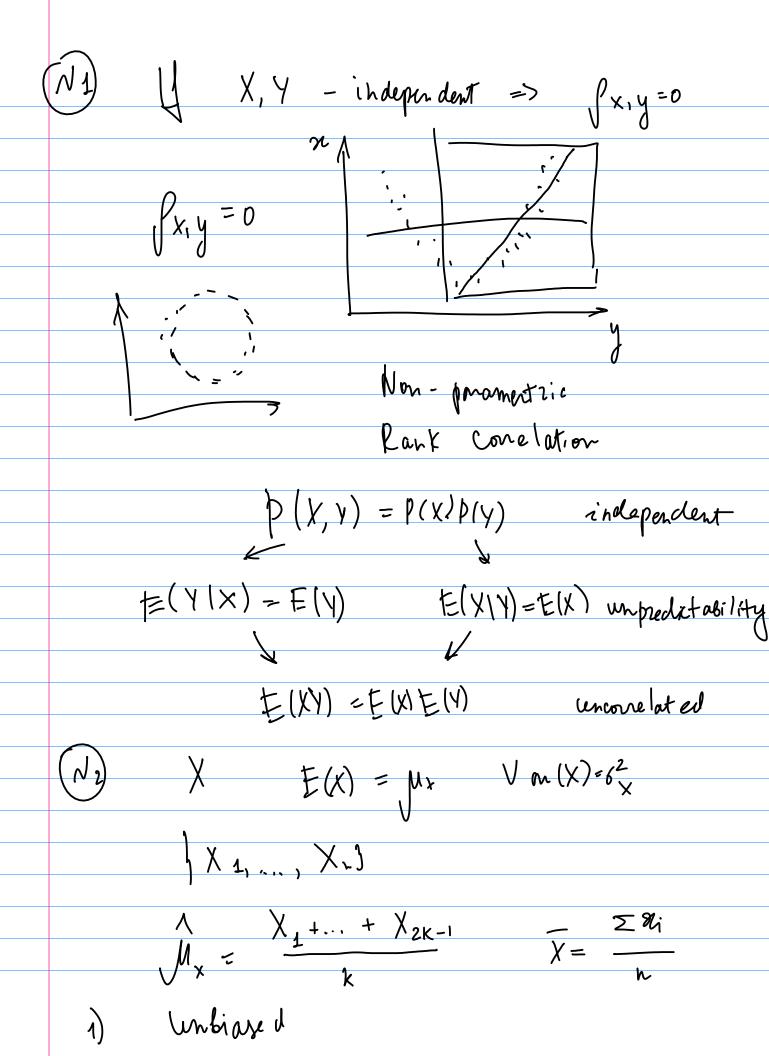
Plin  $\hat{\theta} = \hat{\theta}$ 

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2) 
$$Van\left(\frac{\Lambda}{Mx}\right) = \frac{\delta^2_x}{k} > Van\left(\frac{1}{x}\right)^2 = \frac{\delta^2_x}{h} \left(h > k\right)$$

$$(N_3)$$
  $X$   $E(X) = \mu_x$   $V_{0x}(X) = 6_x^2$ 

$$Z = \frac{1}{2}X_{1} + \frac{1}{4}X_{2} + ... + \frac{1}{2^{h}}X_{h}$$

1) 
$$h - finite$$
 laissed

 $h - infinity$   $\lim_{N \to \infty} f(z) = \lim_{N \to \infty} \left(\frac{1}{z} + \dots + \frac{1}{z^{L}}\right) M_{x} = 1$ 

$$= \frac{1/2}{-1/2} M_{x} = M_{x}$$
1- 1/2

2) 
$$|ih_{n\to 0}V_{0}(2) = |im_{0}(\frac{1}{4} + ... + \frac{1}{2^{2h}}) + 6x^{2} =$$

$$\frac{1/4}{1 - 1/4} = \frac{3^2}{3}$$

$$\forall y$$
  $X = (x) = h$ ,  $\forall a (X) = 6$ 

$$M_{X} = \frac{h + 2}{h^{2} + 3h + (i = 1)}$$

