	Modeling Problems
	-Non-Nunal Resids
	- False linearity blu X & X
d	
	NonNormal Resids can be detected Amongh:
	D Histogram of resids
	200101
	Anderson Oaling Shapin Wiles
	3) Tests for Normelity: Regardancer Kollingsov Smrson
	News associated of non Namel
	resids
	- t-test results unvoluble
	- CZ/PIs we way

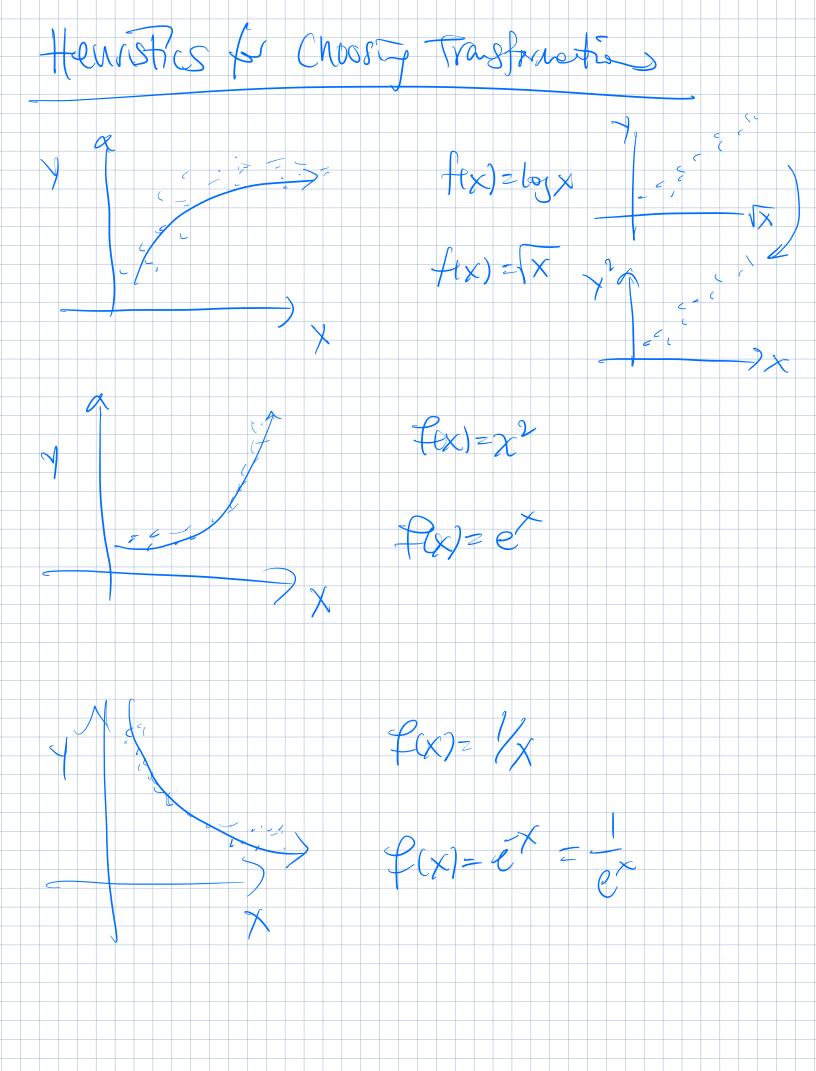
But of hose of them asymptotizally the dist of 3 conveyes as a Namel -B) D) N(0, Va(B)) (1) avgned EX

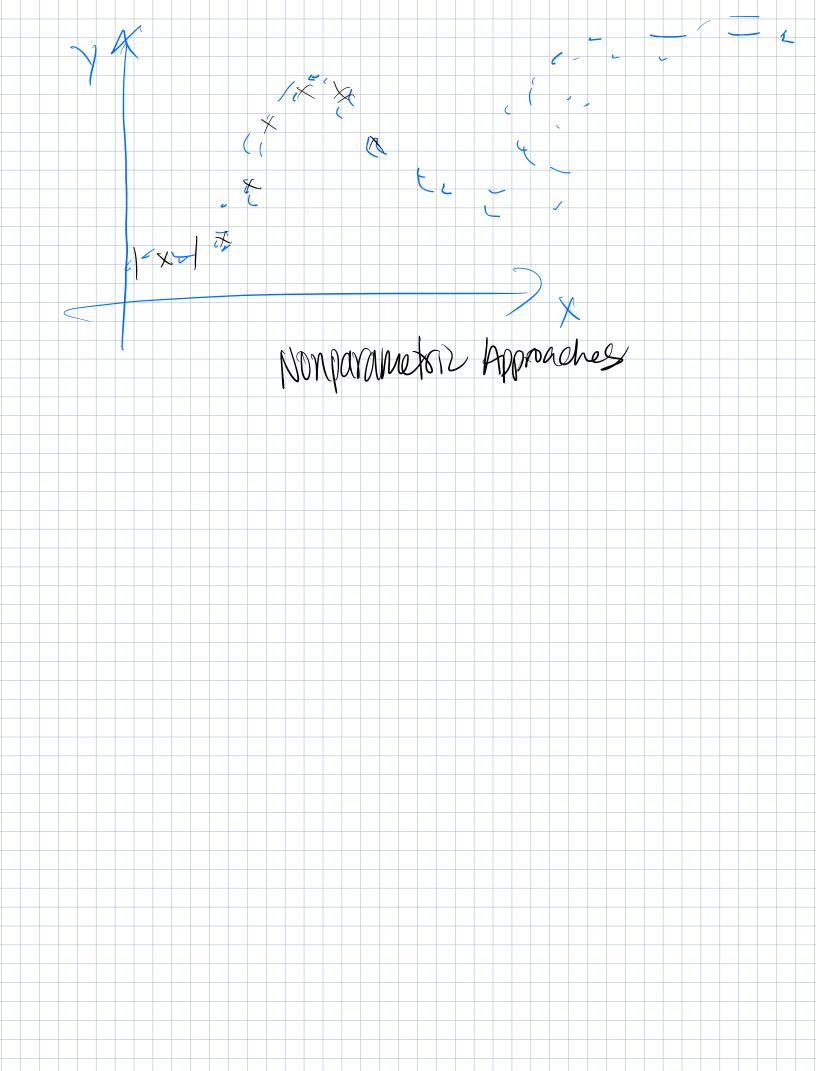
Ways to Devicte from Smalter E((X-M)) Skenness E measures asymmetry pop qty: $E\left(\left(\frac{e_i}{\sigma}\right)^3\right)$ smple skew: 12 (2)3 Kurbsis & Measures "Peakedness" of dot pop 9t7: E((Ei)4) sample knosis: 12 (4)4

Omnibus K2 test to Normality 4 stat - (2, (9,)) + (2, (9,)) LW PS() Ze special transformation Wide Ho: Kotay ~ 22 Ho dist is Normal H. . Significant devation Len Namelik exists

Jarque Bra Test Simila to Omnum Fest thes to contre ster & cutosis Ho dist is Normal H. . Synth Cat devation Len Nambih exists 33 = n-P (g) 2 + 4 (g2) 2

False Assnuption of Une ority When y 4 x are not liveory related we want to transform them worth the relationship is linear Ways to Do Tus: may affect O TVMSfrm refero nomo Skedgs 120 > nice when the 2) Transform X ont MATCH Munhacit 3) Transfin both





losy = Bot B, losx $e^{100}y = e^{3}, \log x$ Y= e e 21105X YzeBo elosx \$1 Y= ax B, Y= eBo XP

a(X+1)B1- GXB1

