

Leet 11. 19 on day 10/14/20 X- Logistic (0,1) = N(0,1) Except it has thicken tails Stand Logistic E(x)=0,  $SD[Y]=\frac{\pi}{\sqrt{3}}$   $Y=M+\delta \times 2$  Logistic  $(M,\delta):=\frac{1}{\sqrt{100}}\frac{1}{\delta}\frac{2^{-M}}{\sqrt{100}}\frac{1}{\sqrt{100}}$   $M \in \mathbb{R}, 570$ Why is this called the "logistic distribution"? THEre's a function all the logistic function and it for 3 parameters: [ (maximum value), ( (steepness), mu (wents) J(X): 2 = 1 = ex the standard logistic )

1+ex(X-M) 1 1+ex 1+ex Ponction

if L:1, k:1, M:0 Yar Logistic (Q1) = et let uz 1 fet z) du zet zo dt = et du = 1 du, t = - 00 zo pros try zo mz 1 + et