= + x+ 4= (xx) + 1 + 20 = KX(X4) = 1 = (xx) x / +20 = KX(X4) = (xx) x Mote Wiibull (1, X)= (1) x (1) x (1) x (1) 1 / 1,0= het 1 x 70= txp(x) Kis really Cool ... this is the main property: K=1 P(47,4+c | 47,c)= P(47,4). eg 4=3, c=14 Me many less ness. P(47,17 (47,14) = P(47,3) 1071 P(Y7,Y+C|Y7,C) < P(Y7,Y) => Survival less likely Prove this in the sold astime sold statistis (p160 in the book) let V11 X2 - Xy be a collection of continuous ry's and let X(1) X(2), Y(4) bethein orden statistics defined as: X(1) = min X, - Xn Ym) m xx(x, xn) XIC = 1Cth Longest X17 ... Xn) 2 - X(n) - X(j) " Range" We Want tofind the Coff and pat of the order statistics. well start by looking at the Ofof

Monday october 19th Wols 1714: First Jaw of errors! Imagine faste trying to measure formetting a Const quantity vi but your mersonements have vandom error, epsilon, se your measurment of is a ro looking like: M= x+epri lon. So what is a good model for the error (epsilon)? It makes sense for t (epsilon)to Med [epsilon]= O and Symmetric. How about: - V (-1, 1) 6 It also makes lense for larger errors (in magnitude) to be less probable than Smaller errors so VE 70 (E) & 0 Xn Fxp(1)= e / xzo. let /= 1 xk = gx) 8+ x, k >0 Ynty (Y)= Inverse function y=x=sx= xy=g(x) 1 2 5 M = 4 1 = KX Y = 1 = KX Y = 1