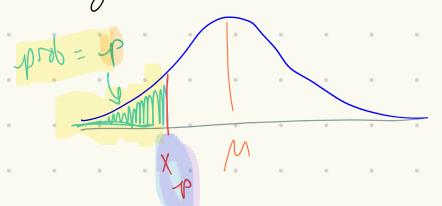


## Inverse Normal

Given a probability, we want to know the volve of x 112.



Given p,  $\chi_p = verlue on x-axis that separates probability p on the left tail$ 

Note older TI's don't have teil -> use LEFT

ASSUMING STANDARD NORMAL (M=0, 0=1)

Chitcal Value Z = z-score that separetes

probability of on the RIGHT Tail

$$\chi = 0 & \sigma = 1$$

Ch 8 Review	
Sanfling Distributions:	
the distibution of ALL samples	of size n et a RVI
Sampling Trist of MEAN	
Given a RV I w!	EX Height of all
(Siven a PV I w)  (D) mean p & st. dev. 5  (2) SPS Dinderp sample Siz	je n Sampling dist?
Tonchsions	all samples of 100
one (approx.) normally di	Sampling Dist
$ \frac{\partial}{\partial x} = \partial$	$\begin{pmatrix} \chi \\ \chi $
$\nabla_{\vec{x}} = \frac{\sigma}{\sqrt{n}}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
How to use	
Step 6 Are you relecting a people/items w/	n > 1?
Steps Find Mx & Tz	
Steps de roundedt w/ Mx & G	

Sampling Dist of Proportion Poll Do you like onlino learning, Given a RV X that has

proportion proportion p. GCC pop p. 3) SRS linder. Sample size v samples of size 100 Conclusions (1) shape of distribution of all sandes por approx-) normally distributed as nincresses Sampling Dist provided that n.p.g >10 2  $M_{\hat{p}} = 1$ ( = 1-P) How to use step & Are you relecting n people/items v/n>1? Is X normally dist End MX & OX Use roundedt w/ M & & of