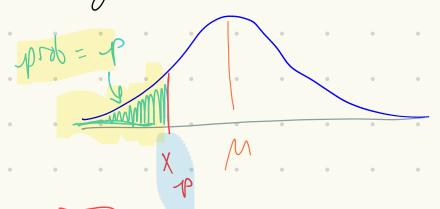


Inverse Normal

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



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

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

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

Chitical Valle 2 x = z-score that separetes

probability or on the PIGHT Tail

$$Z_{\alpha} = inv$$

$$Z_{\alpha} = inv$$

$$Z_{\alpha} = inv Norm(\alpha, 0, 1, RIGHT)$$

inv Norm (1-2, 0;1)

$$\mathcal{X} = \text{Standard normal dist}$$

$$\mathcal{M} = 0 & \sigma = 1$$

Ch 8 Review	•	
Sanfling Distributions:	•	
the distibution of ALL samples of size	\(\sigma\)	of a RV
Sampling Dist of MEAN	•	
(Siven a PV I w) (Diven a PV I w) (2) mean p & st. dev. 5 (2) SPS Linder Sample Size n	•	• •
2) SZS binderp sample Size n	•	• •
Conclusions! (i) distintion of all sample menns x	•	• •
(CLT) one (approx.) normally dist	Samp of N	ling Dist year
$\frac{2}{\sqrt{2}} \sqrt{\frac{2}{\sqrt{2}}} = \frac{2}{\sqrt{2}}$		
$\nabla_{\tilde{X}} = \frac{1}{\sqrt{2}} \times $		
How to use	•	• •
Step 6 Are you relecting n people/items u/ n>1? Rtep 1 11 X normally dist of n>30?	•	• •
Steps Find Mx & Tx Steps Use normaled f w/ Mx & Tx.	۰	

Samping Dist of	Propation			0	• •	0
Given a RV Z population	that has r proportion	φ,	• • •	•	• •	•
(Onclusions) (1) sha		hutidy of	a (mally	•	• •	
(CLT) all dis	tribted as n;	(approx -)v $(approx -)v$ $(approx -)v$ $(approx -)v$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	r t	inpline	Dist
2	Up =	• • •	20 20 20 20 20 20 20 20 20 20 20 20 20 2			200 / 10 W
	7 -		<u> </u>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		0
Step 6 Are you rel	ectivo n peoplo	litems ul	, N > / 5	•		•
Steps Die nort	X O Z					
				•	• •	٠