p.1 12 213 2	3 4/12/R Pl S NOILINUT T N is normal m=0 s=1 (=XM
Y	ou see Y, which is continuous. What's your best guess for X?
V	Ve did that Mon.
Ν	lew: What's the best divide for y to separate $x=-1$ from $x=1?$
Notes on 5.	35 P[A B] P[B] = P[A and B]
Easi	er version of 5.40: sum of 2 independent normal r.v.
	X: N(0,1) Y: N(0,1) $Z=X+Y$
	We want f_Z(z) convolve (works because they' re indepdendent)

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	3/1 2
	γ γ γ γ
	$= N(0, \sqrt{2})$
	The sum of two indep normal r.v. with s=1 is a normal r.v. with s=sqrt(2)
	The book exercise assumes they're correlated.
	If indep, then the variances add. for normal.
	If they're dependent, there's a range.
	One extreme: $Y=-X$. What is $Z=X+Y$? $Z=0$
=	₽Ø t her extreme Y=X Z=2X s=2
	Non normal dist, e.g., $Y = X^2$. Not do that now.