	DREAMS / SCHEMES / PLANS / IDEAS / MOMENTS
	3. A and B are independent if P(ANB) = P(A) P(B)
	First P(AIB) = P(A) P(A) = P(A)B) P(B)
	P(AIB) = P(ANB)
	p(B) chain rule
	$\frac{P(B A).P(A)}{P(B)} \xrightarrow{P(B)} P(A).P_r(B A)$
	Second P(A) = P(AnB) + P(AnB) 4
	pr(A) = P(A B), P(B) + P(A BC), P(BC)
	= P(AIB), P(B) + P(AIB), P(BC)
2	= P(AIB) (P(B) + P(B2)
	Pr(A) = P(A B)
7	

DREAMS / SCHEMES / PLANS / IDEAS / MOMENTS	
$P(A B) = P(A B^c)$	
$\frac{P(A B) - P(AnB)}{P(B)} = \frac{P(AnB^c)}{P(B^c)}$	
P(AnB), P(BC) = P(AnBC), P(B)	
P(A), P(B), P(BC) _ P(A), P(BC), P(B)	
so they'r Independent	
	Y