

```
野記 S st, 五( In(f) | デ,) = Is(f)
                                                                                                                     E ( ; $ e f ( Bij - Bij . ) + Chi ( Bin - Bix ) + $ pin e f ( Bij - Bij . ) } }; )
                                                                                                  th 5 feet
                                         方方 王( と g ( by - by-)) = こ g ( by - by-) の
                                   Berne & Ftx => If (en (Bton - Bto) | Fs] = en (Bs - Bto) D

A I ( \( \hat{\Sigma} \) ej (Bg - Bg - 1) | Fs)
                                                          75 En Tomer Property E(E(X|B)|A)) = E(X|A)
                                                            let A=Js. B= Jij., A jahod =>tj.1>thin 25 (ACB)
                                                               A E ( g ( By - By-, ) ( 75)
                                                                            = E(E(ej(Bj-Bj-1)/7-1)/7s)
                                7 1 By-By-1 5 Jy-1 1 , TA F (B-B) ~N >0

TA F=0 3

O+O+(3) => QTV

Martyale Property of 1+10 longue
                方序 Var (leif) blo lowery to the landy / 
                                                                                           ( ) I ( ) JS ABS) = E J (JS) AS = J S ds = /2 +2
                                                                                                           ] + 1 = Z ej (By - 85-1)
                                                                                                         [h(f)] = Z eig oB; oB;
                                                                                                    WLOG, let ich ice ins = isj-1
                                                                                                  E(e:ej sB:sBj ] 3,)

= I (I (e:ej sB:sBj | 7.)

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- I (E (e:ej sB:sBj | 7.)

                                                                                                            V= F(eieisBi F(aR-) ]=,)
```

$V = \mathbb{F}\left(e_i e_j a_{i} \mathbb{F}\left(a_{i} a_{i} \right) \right) = \mathbb{E}\left(e_i e_j a_{i} \mathbb{F}\left(a_{i} a_{i} \right)\right)$																								
					\	V =	E (eie	i sBi	· [le B-)) ;	<u>~</u> ,)											
						=	Σŧ	ei (ا (Bi)		` `	117	- , ,											
				ſ		e; (s	·Bi)		其中	ei_1	aBi													
					v = T	e; (&	、 小压	را کریم ما	e sti															
				1	A T	j ()	*(f)	} = Z	Εe	² (s)	3;) ^z =	Œ(Σei.	લક) -	= E (ţp?	(eu,2)	ds)	G	tt	, 1			