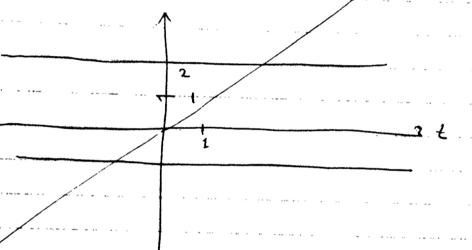
we show 3 realisations of the



(5)	The	2	joil	nt.		ρm	· · · · · · · · · · · · · · · · · · ·		Px	 (0)	 X(2))
	x(2)	1-2	1-1	10	11	12	1401	1	_	•		1
THE STREET	-2	1/6	0	1/6	, C	0' (1/3					
	-1	0	1/6	0	C	0	1/6		*** **** * *			
	0	0	0	0	0	0	6	,			**** * * * *	
	1	0	0	0	1/6	0	1/6		• · · ·			
	2	0	0	1/6	0	1/6	1/3				ger .	,
	total	1/6	1/6	1/31	1/1	1/6	1					

The marginal pmf for fxz

-2 -1 0 1 2

x(2) 1/3 1/6 0 1/6 1/3

1/4 1

$$E[x(0)] = \sum_{i} x_{i}(0) \cdot f_{x(0)}$$

$$= -2 \cdot \frac{1}{6} - 1 \cdot \frac{1}{6} + \frac{1}{3} \cdot 0 + 1 \cdot \frac{1}{6} + 2 \cdot \frac{1}{6}$$

$$= 0$$

$$E[\times(2)] = \sum_{i} \times_{i}(2) f_{\times(2)}$$

$$= -2 \cdot \frac{1}{3} - 1 \cdot \frac{1}{6} + \frac{1}{6} \cdot 1 + \frac{1}{3} \cdot 2$$

$$= 0$$

$$E[\times(0)\times(2)] = \sum_{i} \sum_{n} \times_{i}(0) \times_{n}(2) f_{\times(0)\times(2)}$$

$$= (-2)\cdot(-2) \frac{1}{6} + (-1)\cdot(-1) \frac{1}{6} + 1 \cdot 1 \cdot \frac{1}{6}$$

$$+ \frac{1}{6}\cdot 2 \cdot 2 = \frac{5}{3}$$