1)	m (a+bx) = a+bm(x)		4)	ïŧ	tne	funct	101 0	is n	on-d	ecreas	ung	then	tne		edi an	o f	
	m (atox) = 1 2 atb					anstov											160
	= 1 × a +		func	non.													
		13	For	que	wtires	this	is	me	same	•							
	- <u>Na</u> +	6 x 1 5 xi			Ø₽(96X) =	90	Ob(x7))								
	: a +bm((x)	This	. s^	00/d	genev	αιιγ	apply	to	the	. IO	R d	ue to	the	Quo	elthu	H
				•	imilar												H
2)	cov(x, a+ by) = b	x cov (X,Y)	Wit	n 1	ne v	range	thi	is sho	ould	ье	-8im	i/av					H
	cou/v	(, a+by) = 1 \$\frac{1}{N} (x; -m(x)) ((a+by;) -			,,												
	χ)νος	N isi		410	ענו												
	m (a+by)																
	= a+bm(Y)																
		(arby;) - (arbm(y)) = b(y; -	m(y	_(נו													
				-													
	=	1 2 (x: -m(x)) (b(y: -m(y))					5)	m(g(x))) ≠	, g	lmlx))((<u>(</u>				
		b I S /															
	-	b. 1/2 (x;-m(x))(y;-m(y))						r exi			_						
		b - cov (x, y)						of					-		2 wh	ich	
3)						\dashv	is	W00	-decv	easiv	9 •	hor () → 0	0			
3)	CUV (AP 0X , A + 0X) = 6	$r^2 \text{COV}(x,x)$ COV $(x,x) = 3^2$						m	(gl×)) =	<u>, o</u>	² + 2²	. 2				
	cov(a+bx, a+bx)	$\frac{1}{N}\sum_{i=1}^{N}\left(\left(a+bx_{i}\right)-\left(a+b+(x_{i})\right)^{2}\right)$								-							
								g(,	Μ(x)) =		۱ ² :	ι				Ī
		$=\frac{1}{N}\sum_{i=1}^{N}(b(x_{i}-m(x))^{2})$												s) *	g(m	(x)	
		$= b^2 \frac{1}{N} \sum_{i=1}^{N} (x_i - m(x_i))^2$											-)		J		
		= b² cqv (x,x)															
	S2 = 1 2 (xm(x)																
	- N E (x: -m(x)	t)/rm(r)															
		101 miles															
	= Cov (x,x)																