-	Insped	tio	n																												
•	ary dt'	=	f(t)		>		dire	ct		νt	egi	ali	ρſ																	
•	div		f (y)	a (1	2)				000	иП	tic	- 70	بہ	L	Jak	inh	los														
	qr m	=	J (9)	ga	-)		7		eq.	W W	<i></i>	, 11	0,	-	υω		J W J														
	Lune	Or	ot	her		→		pre	W	gω	مار		lea	mt	- , ,	net	hod	b													
								•																							
Лe	nee	d	neth	cods	s f	or	Λ	on-	liv	W	u′	di	Jfe	ren	tio	L	equ	at	ion	ム	a	nd	5	sys	ter	ΛΔ	of		ØЕ	5	
-	1 \		Met																												
	Gwen of	. vi Ł	ritial usv	COA	ditu	να Υ	, د	we = 7	r.	est +	ini h	ate LF 1	\mathbf{x}	c t	υω))	ue	له	t a	enol	ther	٠ ر	/alı	e					_			
			x												•																
	"	1																••													
	x (t)	= +	, t)C	c (1) =	: e	×		2.7			((isin	g e	ract	M	eth	od)												
					/					Υ.	=	1	_	⊢	h f	σ. .	+)		9	Sub	bing	þ	c 。 ,	f°	Ń	to	rh	5 6	} '	ode
	_)		ſ	ŀ·	ŀ			1	Г. І				
											2.7	7 (and	-	2 1	rot	too	C	lose	•	N	edec	l t	b l	Ŋе	Sn	wille	ur s	tep	Siz	e
	Instea	d ,	multipl	e sta	eps	Q.H	e	use	d																						
'	for	fo	T M	<u>d</u> ∝	<u> </u>	f	(x .	t)			χ	:(t	。) =	: 0	c.																
			tn + h																	an	alog	ow	to	di	otan(L =	CUAT	ent	+ (une	x Sp
			ler th		•																										
W	ontes	6 0	_	r(t	+h)	- h	x	t)	4	≈		dsc 44				۵	nd		dx	=	f	(x	t))							
			gvig																u												
	1	L	0.00		7	11	+ h) =		\mathbf{x} .	t)	1	∣h.	ł (:	st,t)															

Example:	Susceptible	Injected -	Recovered	(31R) model	of infection	spread:	
ds	- \S I	d1 = 18	- y	dh =	- v (
at		at	•	at -	T ·		
S (t+	h) = S(t) +	· hx λ S(t)I	(f)				
I(t:	h) = I(t)	+ hx (15)	t)I(t) -	۷ I (٤))			
lower n =	= more a	ccurate resi	ut				
Chanin	, L ₋ 150	order	ſ				
- Introdu	ce new v	ariables to	Change	system to	1 St order		
e.a d	2 <u>0</u> = -	9 500					
1 (₩² 						
<u>d0 -</u>	w						
			- v	ecte iteration	from each		
$\frac{\partial \omega}{\partial t}$	= - <u>9</u> sin	10			•		
R. A. T	: . d · o -						
	inding:						
- Refers	to findi	ng the 100	ts of f	unctions i	. to find	oc Such that	
			f (x) = 0			
	O . L 11.	F' 111	J				
		ation Mel					
- Кеата	nge J	f(x) = 0	to	x = g(x)	.)		
- Make	a Seguen	ce of va	lues :	$x_n = x$.	χ,	quessing ∞	
	·					J J S	
		, = g (s					
→ ij	this Sec	prence con	werges,	then it co	nwerges t	o a root of	f .
\lkat a		2					
	m go u						
- Diverg	ence	= 0 -		2 1			
e.g	oc oc - 1	= 0 -	\rightarrow \propto	= 0			
			J X	' = -1			





