## PRIMJERI DIF. JDBI

varijalok varijalok oblik mirame	le ma s  ACy)dy  Cosx  Sinx	= 9(x)dx  dx =   -1	= Sin X
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oblik Mirana Hgx )	+Cy)dy	= 9(x)dx  dx =   -1	= Sin X
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b) homogene jednacièbe pinog récla M(+x,ty)= t M(x,y) -> rjesava se supstitucijon 2= \( \frac{1}{x} \) \( \frac{1}{2} = \frac{1}{x} \) \( \frac{1}{x^2} = \frac{1}{x^2} \) VI = -1 - Y Supstitucija X21+2 = -1-Z XZ1 = -1-2Z x2d2 = dy.x-dx.y 1+22 - dx aly x= x2d2 tax.y /:cx CY.X=X2d2 +Y/X In 14221= In 1 5 Y'= XZ' +Z V= (-X /

Svoctonie na hor cene jednadice VI= 1-3X-34 1+X+Y 1-3x-3y=0 1+X+4=0 mema orj. Z=X+y / Supstitucia 1+2 (2-1)+2 2(1-2) -2(2-1) dz-dx+dy dy-dz-ck/:clx 9' = 21-1 21-1= 1-32-Z1 = 1-3Z+1+2 Z'= 2-2Z 1+2 1+2 dz dx () 2(1-2) -2 -2 2 2 x + C C=3x+y+2ln/x+y-1

1) 11 1000	10 (V)									nlor tolor	
1) y'+pxxy	= g(x)					ij	1	5			H
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y +900 4=	9		-7								
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y=yh+yp		9						H	HS		170
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dy y =x		-							4		
13-7-X			172						59		
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Y=xc	Varigocija	Konstart	a		-			and and			Н
Y- X - C(X)	1							Н	2 47		Н
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y'= x'·c(x)	+ XC(x)				375				4		y
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. 660+x 6	(x) - (x) = X										
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C'(x)=1	10	7				H		Ħ	T		
	1)					A	4	2		14	
C(X)=X+	- C	<del>(1)</del>				П		3			
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VI											
Y= x(x+c)	)=X4XC1						10		- 1		
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TO LEEP 14			17		V T						
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2) dy + 24 = x3 Pripodra homogra 91+24=0 9-- 27 1 Lary1 = em Ixcl Y= C Y= c(x) /1 Vracamo u pocetnu Y1 = C'(1) & - (12) - 2X C'(x) x - SCX72x + 20(x) = x3 

	e) barnulijeva jednadžba				30	50	was	84	12.	104	2 6	93	
		0.0	<del>+0</del>		7	-4	(- m				100	K	
	9+12(x)y=Q(x)y*	n	+1		8	7				01		q	ζ
		h===	1/3		200			+			3 5		ř
	-y= +x vg	2=	Y2										
			- Y	1			H	1 10		H		Н	
		2 -	2 /2			Ì					ľ	- 1	
	The state of the s	Y1 =- Z	2,2	1				+		310		-5	
	-7 212 4 2 2 1 8 1 7	1-2						I	16				
	222 = 22 + NZ / Z					4	Us.	140	H	14	31-3	9	
	-2 2 = 4 2 +x /: -2			É									
•							H	÷	Н				30
	$2! + \frac{22}{x} = -\frac{x}{2}$												
				H	H		Н	H	Н	H		H	1
	Pripadna homagena			4	П						1	-	
	21+2=50	140	(4,0)			17	(4)	h				in	
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1	2- ((x)							İ					
	x2 & Vrotino	-			Н	H				V.			
	31 = (10)2-24(14)				Ц			L		Ť			
	. X4	1		He	H		1			H			
	(10) x - 2 v(Cx) 2 10	()	X			٦	u j						
	1 1/3		- 2		H	H	Н	1			H	Н	
4	X C	-	12			W		ķ			T		
	$c'cx > = -\frac{x^3}{2} \left  \right $	×2	12						1				
	10 Y - Y	8	(y)						53				
	C(x)= -2 + 4		x2/	= 10	0.3				1				
		150											
	2-8+4	-	TOP A							7			
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DE62 ANTHE JODNADEDE P(Xy)dx + Q(xy)dy=0 DG - 76 DY Dx onda Uly Plx, y) clx + 5 Q(xy) cly Norto -> Dilosto 12 donne ako unct mije zadovolje onda lulerov multipitrator 1) (x+y)dx+(x+zy)dy-0 P= X+4 Q-X+24 Py - 1 Qx = 1 U(x,y)= [ P(x,y) dx + [ Q(0,y) dy = = + xy +y = C 2) (x+y2) dx - 2 xydy = 0 P= x+1/2 Q -- 2 KY Ry = 2× Qx = - 24 44) dx = 12 dx lm 4 (x)= -2 lm X M(W) - 1 UCXy)= P(xo) dx + J QCxy) dy Q= 2 X

7 P=y+lnx Q = -X  $P'_{1} = 1$   $Q'_{2} = -1$   $ln M(x) = \int \frac{1}{-x}$ dx Inuces - 2 ( + 0x In M(x):  $P = \frac{1}{x^2} + \frac{\ln x}{x^2}$   $Q = -\frac{1}{x}$   $V(x,y) = \int_{1}^{x} \frac{\ln x}{x^2} dx + \int_{1}^{y} \frac{1}{x^2} dy$   $y + \left(-\frac{\ln x}{x} - \frac{1}{x}\right)$ 14 1 lnx Le@color