





```
dep:=true;  
eqns
```

```

result:=[];
for sAtt in eqs do
  sAtt:=subs(op(sToDo),sAtt);
  if type(rhs(sAtt),numeric) then sToDo:=[op(sToDo),sAtt]; end if;
  if rhs(sA )<>0   en resul  =[op(resul ,sA  ); end if

```

2912



e

d

```

> c&JcD&Jv&:=broc(eds'sid'nswe  JOC&J c&'x'q'e( ) 1J JS 0 0 -32Δ J'
enq broc:
  resuJc'
  enq qo'

```







$$\left| \begin{array}{ccc} & & \\ & & \\ & & \end{array} \right| G_{uc} \quad 2$$



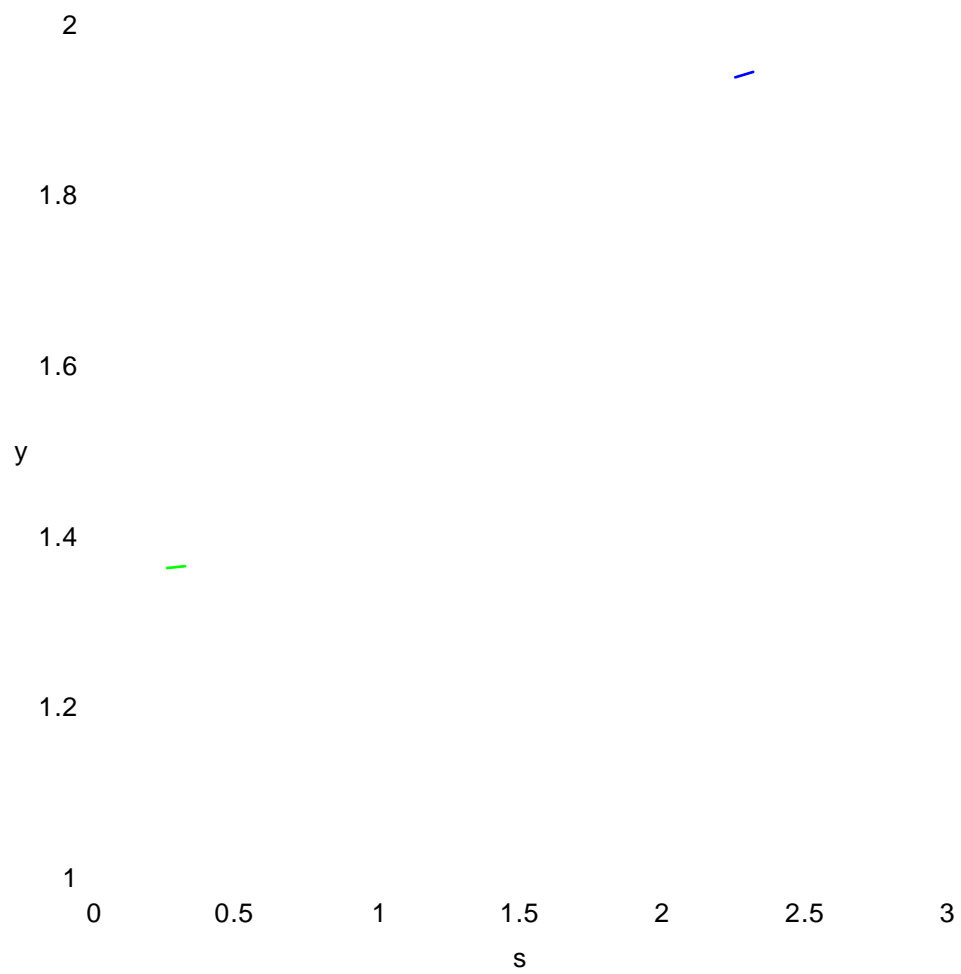
| | |

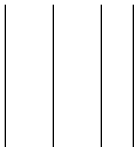
$$0.031090 (1 + 0.20548 \, r_s) \ln \, 1 +$$



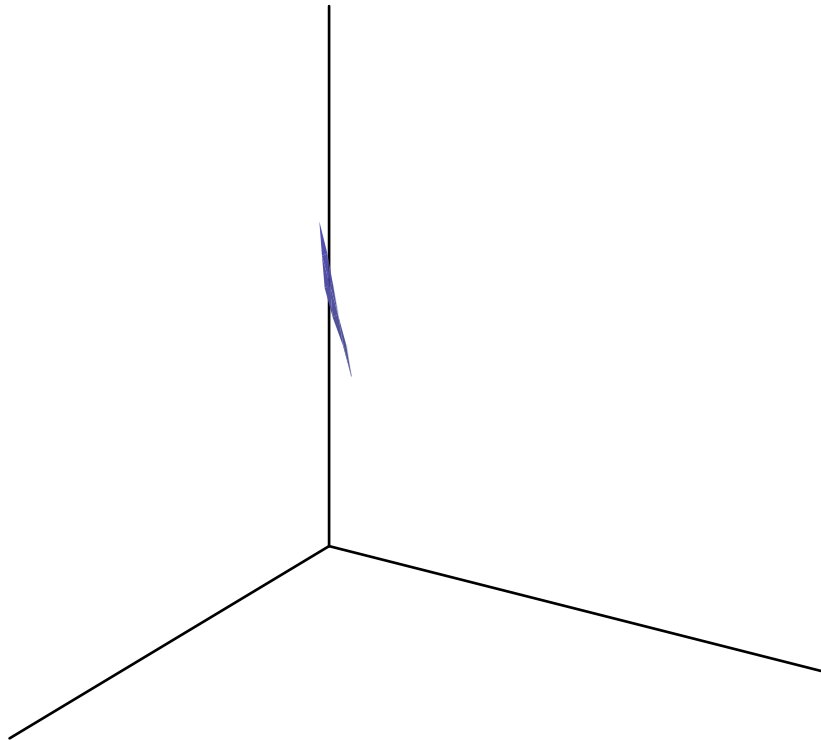
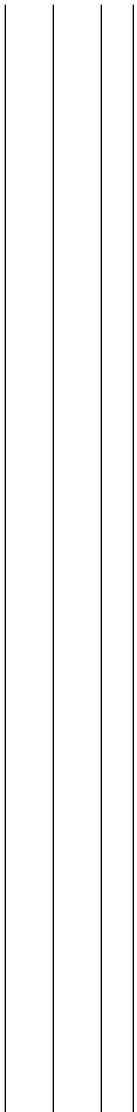








$\mu =$



| | | | ,x = s

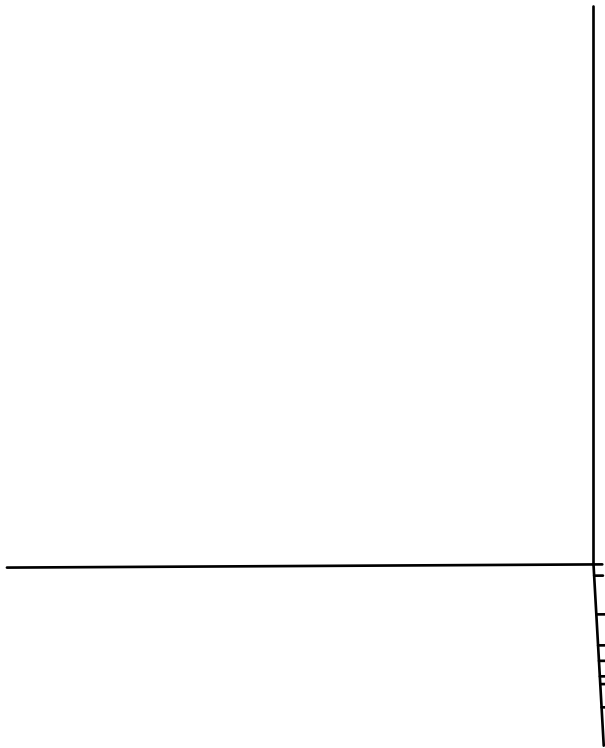
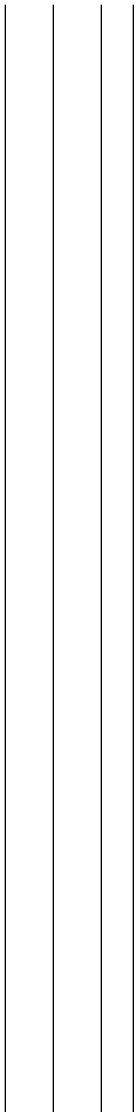






| | | |

**proc** *roc*



```
deriv_lda2:=[se
```





| | |

da bleprecision t905



| | |

doubleprecision t1433

dou

| | |

doubleprecision t282

```
doubleprecision t74
doubleprecision t75
doubleprecision t1094
doubleprecision cg26
```

|  
|  
|  
|

doubleprecision kf  
b



| | |

doubleprecision cg39  
do







| | |

doubleprecision t686



| | |

$$t_{68} = \exp(-c_{g22} * t_{66})$$

```
t129 = 0.1D1 / t62
cg5 = t129 * cg62 * t5
t131 = cg40 ** 2
t132 = 0.1D1 / t131
133   c
```

			cg11
--	--	--	------

\*

# t263

cg55 = cg4

t269 = t57 \*\* 2

cg14 = -0.2D1 / 0.9D1 \* dble(t1) / 25 / t59 \* t269

t273 = 0.1D1 / t62 / t61

t274 = cg



| | |

$$cg24 = c$$







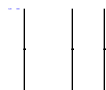
t

t2

t

```
# 0.3436685857D1 * rs2rho * t259 * t263 + 0.3216364864D2 * t260 *  
#628 * t262 * t120 + 0.5172501469D3 * t11 / t258 / t108 * t236 /  
#61 / t22 * t611  
cg37 = -t229 + 0.2137000000D0 * t230 * t612 + 0.2137000000D0 *  
#652 * t122 - 0.20 0000000D1 * t235 * t618 + 0.9999999999D0 * t110  
#* t629 + 0.1608182432D2 * t260 * t634  
cg64 = cg37  
cg27 = -0 1328829340D-1 * rs2rho * t23 + 0.9999999999D0 * t111
```


t807 = 0.1D1 / t806  
t808 = t140 \*\* 2  
t824 = t303 \* cg55 \* cg27  
t8



$$t_{943} = t_{903} + t_{905} + t_{908} + t_{911} + t_{913} + 0.2D1 * t_{927} * \text{Arho} + \#0.8D1 * 3 \quad t_{90} + 0.2D1 \quad t_{10} \quad \text{cg35} + 0. \\ * 392 * t \quad * t2 \quad + 0.4D$$

$$\#0.5D1 * 3 \quad t9 \ 0 + 0.2D1 \quad t1 \ 0 \quad cg35 + 0.$$

$$* 392 * t * t^2 + 0.4D$$

9 0  . 3 5 0 200j50 Tm (D) Tj 12 0 0 -12 207 60 Tm (0) Tj

| | |

$$t_{1058} = t_{158} * t_{l\rho} * t_{890}$$

| | |

#0.8D1 \* t1130 t381 3 0.1tDt t3.t 1t tt





| | |

#08 + cg37

t3

\*

$$\begin{aligned} & \# + 0.400350D0 * t477 * cg18 * t80 * t1rho + 0.133450D0 * t145 * \\ & \#58 * cg33 - 0.400350D0 * t477 * t470 * t1497 + 0.133450D0 * t464 \end{aligned}$$



t100

#4 \* t553 + 0.266900D0 \* t329 \* t1759 \* trho + 0.266900D0 \* t373 \*  
#t1533 \* t206538

t

$$\#1876 + 0.533800D0 * t_{490} * t_{1885} + 0.533800D0 * t_{329} * t_{1885} -$$

0.2

| | > toR







1111

| | |

doubleprecision function cg94 (rhoa, rhob, c

|  
|  
|

doubleprecision t1  
doubleprecision cg3

doubleprecision t412

doubleprecision cg16



| | |

doublep

| | |

d@ bleprecision t247  
d@ bleprecision t815





| | |

doubleprecision t1750

| | |

doubleprecision f  
d

| | |

doubleprecision t165  
doublepre

| | |

dou

```
t4 = 4 ** (0.1D1 / 0.3D1)
t5 = t4 ** 2
```

```
f9 = f3 * f2
```



| | |

$$t_{122} = c g_3^{** 2}$$



t183 = t181 \* t182

cg74 = -0.638837320D-2 \* rsrhoa \* t37 + 0.1000000000D1

			$t_{244} = t_{96}^{**2}$
			$t_{246} = t_{89} / t_{244}$
			$t_{247} = c_{g13} * t_{89}$
			$t_{249} = t_{91}^{**2}$
			$t_{250} = 0.1D1 / t_{28} .$

| | |

rsrhob = rsrhoa  
t31

| | |

$$t_{383} = -t_{378} * t_{93} + 0.3D1 * t_{90}$$

| | |

exc\_norm\_drhob =

$$t_{577} = 0.1D_1 / t_{77}$$

$$t_{578} = cg_{38} ** 2$$

$$t_{583} = 0.1D_1 / t_{78}$$

$$cg_{53} = (0.4D_1 / 0.9D_1 * t_{577} * t_{578} + 0.4D_1 / 0.3D_1 * t_{57} *$$

cg

| | |

$$t_{651} = 0.1D_1 / t_{61}$$

| | |

t765 =









t157

# \* (-0.1898925000D1 \* t1214 + 0.3797850000D1 \* t

$$\#t_{571} * t_{1259} * t_{573}) * f * t_{68} + c_{g17} * f_{l\rho h o b} * t_{68} - 0.4D_1 *$$
$$t_{35}$$

$$\begin{aligned} t_{21472} &= t_{24418} * t_{289} \\ t_{1458} &= t_{2757} \text{ trhob} \\ t_{1467} &= c_{g55} * t_{100} \\ t_{1770} &= 0.2D1 * t_{1153} * t_{1rhob} \\ t_{1473} &= 0.2D1 * A_{1rhob} \text{ rhob } t * \text{trhob} \\ t_{1476} &= 0.2D1 * A \end{aligned}$$

```

      ⊥
cg
      #25 + 0.3D1 * t258 * t409 * cg43 + t99 * t1518 * t289 - t99 *
t1521
      # * t1441)
      t1575 = t232 * t86
      t1577 = t84 * t237
      t1579 = t436

```

| | |  
#09 \* cg86 + 0.133450D0 \* t262 \* t397 \* cg31 + 0.66725D-1 \* t101 \*



```
#37 * t1772 + 0.2000000001D1 * t429 * t1772)
cg94 = exc_norm_drhob_norm_drhob
```