

wxMaxima File Edit Cell Maxima Equations Algebra Calculus Simplify Plot Numeric Help ☰ 12% [?] 12% [?] 12% [?] Sat Jan 22 2:52:50 PM Q

Final Maxima (2).wxmx

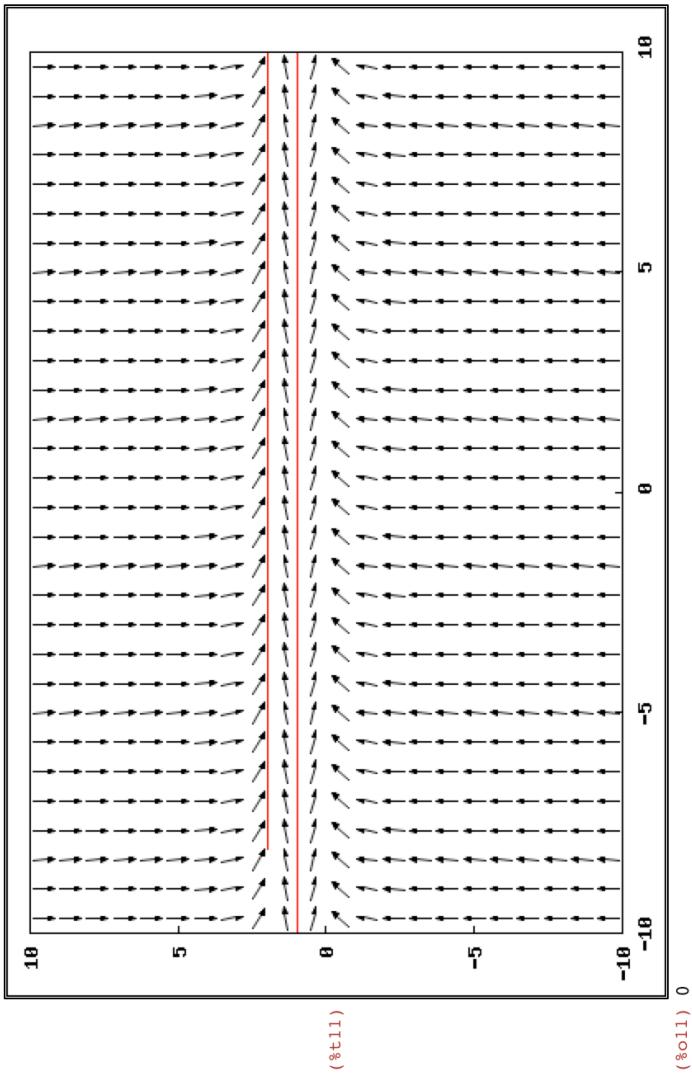


--> load("/Users/Visheshsaharan/Downloads/MATH280.mac")\$
MATH280.mac: help(MATH280) for contents

--> load("/Users/Visheshsaharan/Downloads/laplaceInv.mac")\$
--> load("/Users/Visheshsaharan/Documents/eulermethod.mac")\$

1A

--> wxdrawdf(-y^3+3*y^2-2*y,soln_at(0,1),soln_at(1,1),soln_at(2,2));
Fontconfig error: Cannot load default config file fontconfig: Couldn't find font. when opening font "arial", using internal non-scalable font



1B

Welcome to wxMaxima



Maxima is calculating

Apple wxMaxima File Edit Cell Maxima Equations Algebra Calculus Simplify Plot Numeric Help

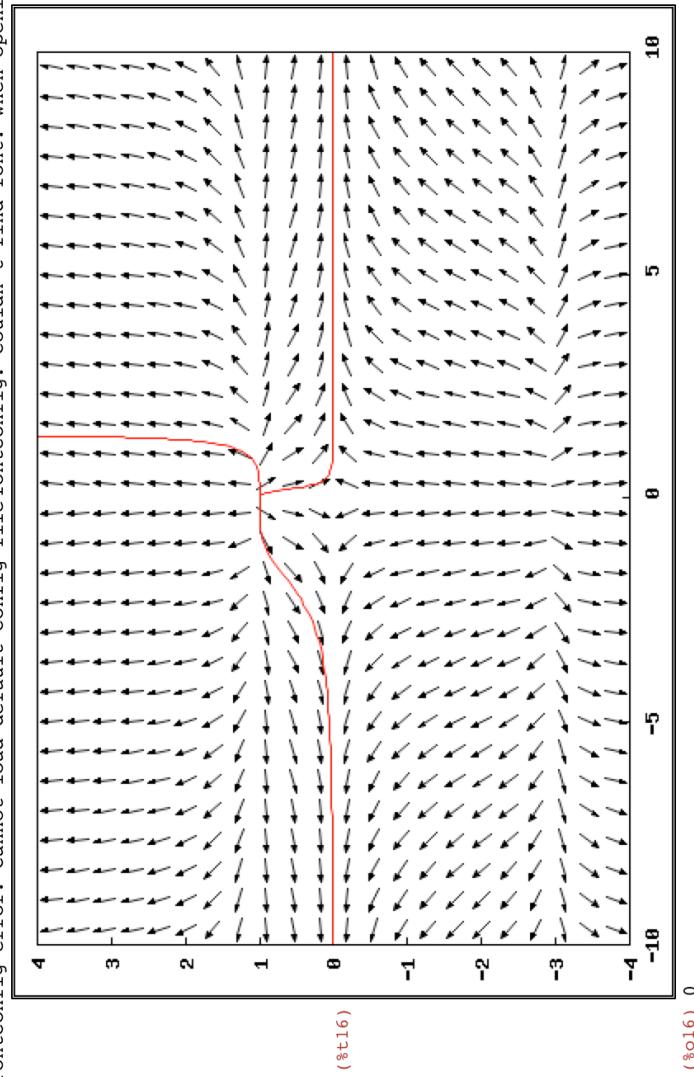
Final Maxima (2).wxmx



1B

```
--> g:[y,y^3+2*y^2-3*y];  
(%o12) [y, y^3 + 2 y^2 - 3 y]
```

```
--> wxdrawdf(gr1,[y,-10,10],y,-4,4),soln_at(0.3,0.3),soln_at(1.1,1.3),soln_at(-3.2,0.2));  
Fontconfig error: Cannot load default config file fontconfig: Couldn't find font. when opening font "arial", using internal non-scalable font
```



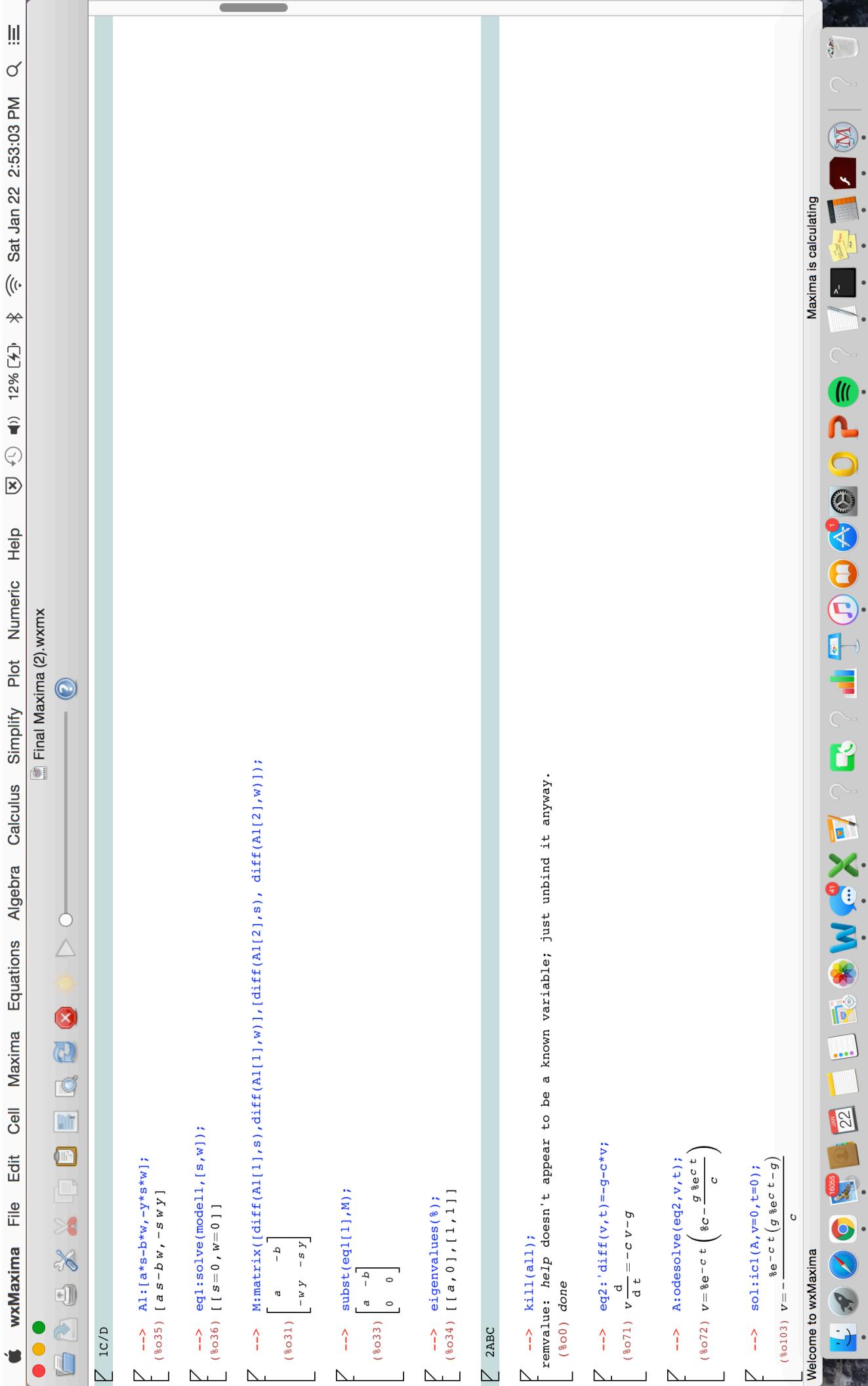
1C/D

```
--> A1:[a*s-b*w,-y*s+w];  
(%o35) [a s - b w, - s w Y]
```

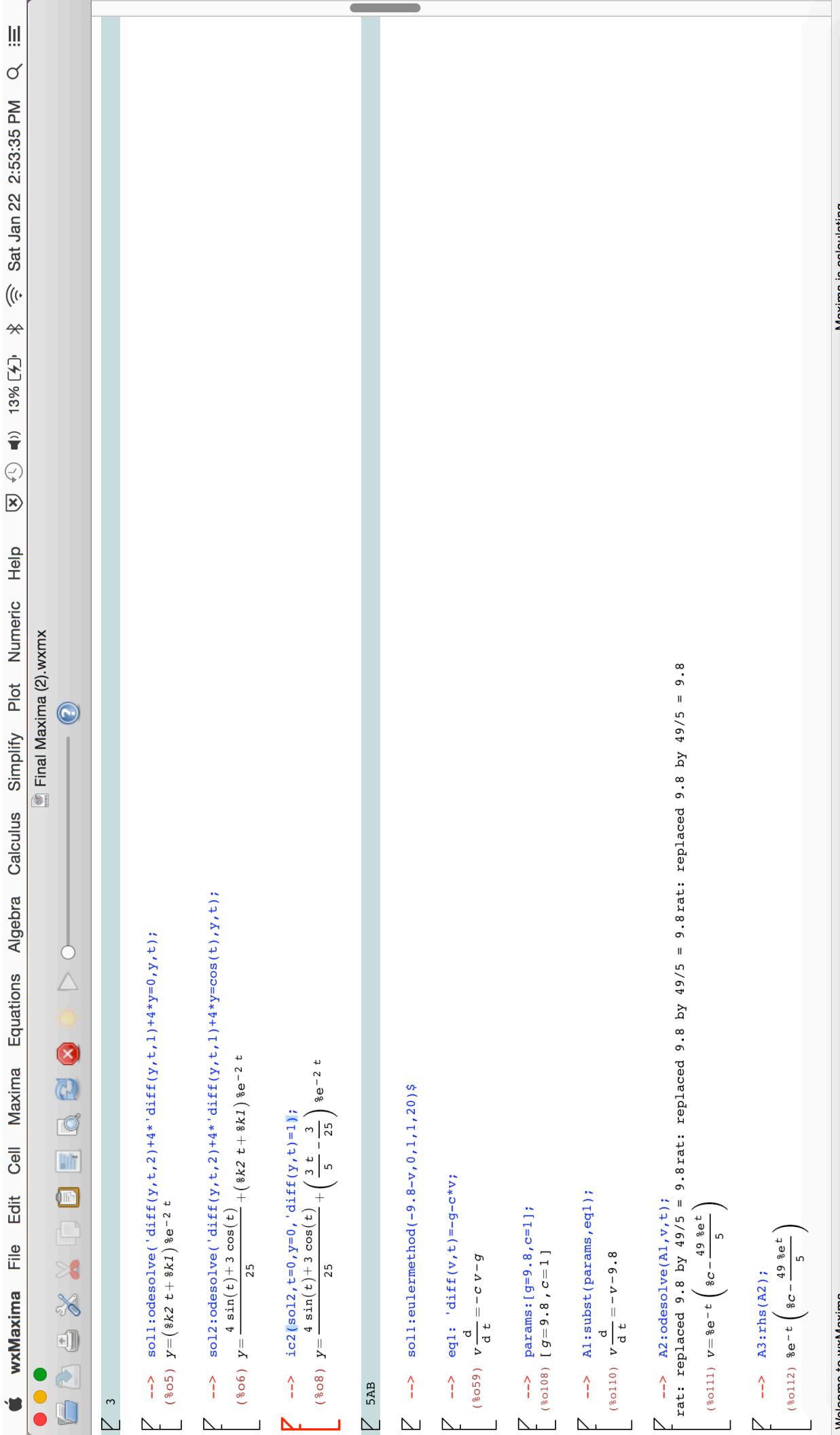
Welcome to wxMaxima

Maxima is calculating









Maxima is calculating



Welcome to wxMaxima

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Q

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Sat Jan 22 2:53:41 PM

Q

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Maxima

File

Edit

Cell

Maxima

Equations

Algebra

Calculus

Simplify

Plot

Numeric

Help

☰

? (i)

13% [Flash]

13% [Wi-Fi]

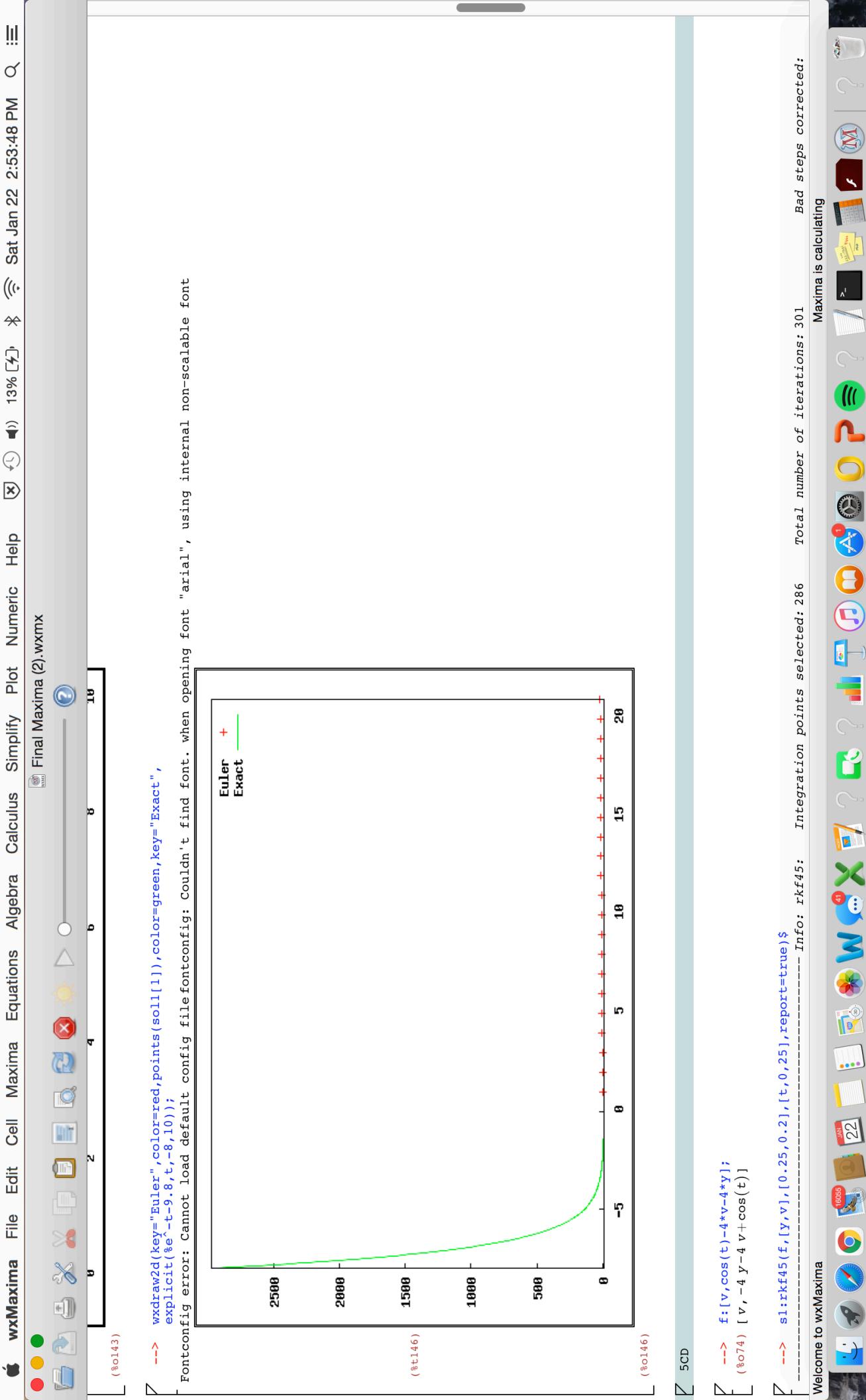
Sat Jan 22 2:53:41 PM

Q

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Final Maxima (2).wxmx







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5CD

```
--> f:[v,cos(t)-4*v-4*y];
(%o74) [ v, -4 y -4 v + cos(t) ]
```

```
--> s1:rkf45(f,[y,v],[0.25,0.2],[t,0,25],report=true)$
16      Integration points selected: 286      Total number of iterations: 301      Bad steps corrected:
      Minimum estimated error: 2.278598882625432 10^-8
      Maximum estimated error: 7.437678279618282 10^-7 Minimum integration step taken: 0.03676684826627508
      Maximum integration step taken: 0.1604506979617147 ---

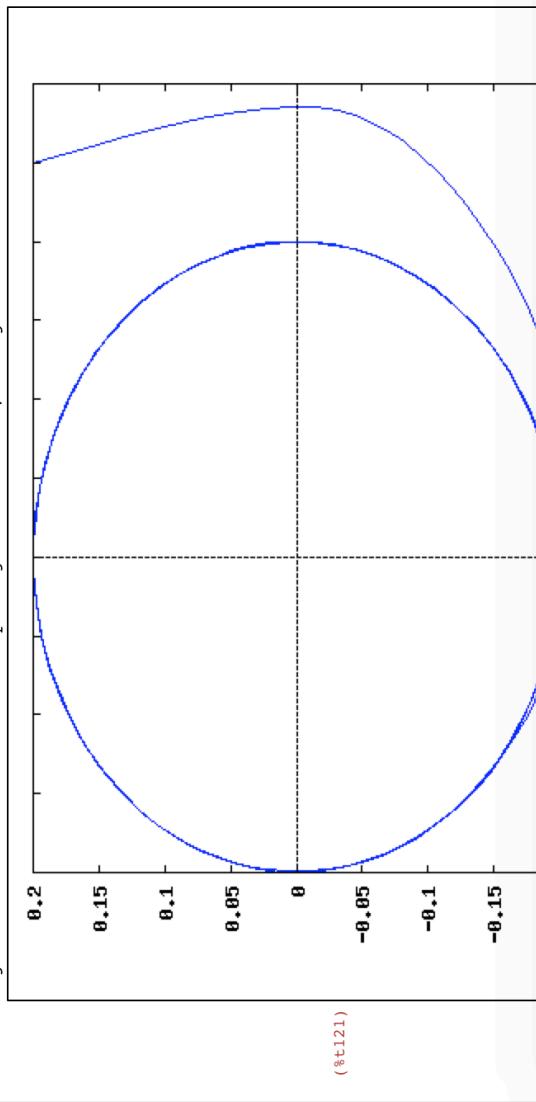

```

```
--> s2:rkf45(f,[y,v],[1.25,0.2],[t,0,25],report=true)$
11      Integration points selected: 299      Total number of iterations: 309      Bad steps corrected:
      Minimum estimated error: 2.49462903696424 10^-8
      Maximum estimated error: 8.722006218820982 10^-7 Minimum integration step taken: 0.030693399236892642
      Maximum integration step taken: 0.1580530060466578 ---


```

```
--> wxphaseplot2d(s1);
wxphaseplot2d(s2);
```

Fontconfig error: Cannot load default config file fontconfig: Couldn't find font. when opening font "arial", using internal non-scalable font
 fontconfig: Couldn't find font. when opening font "arial", using internal non-scalable font



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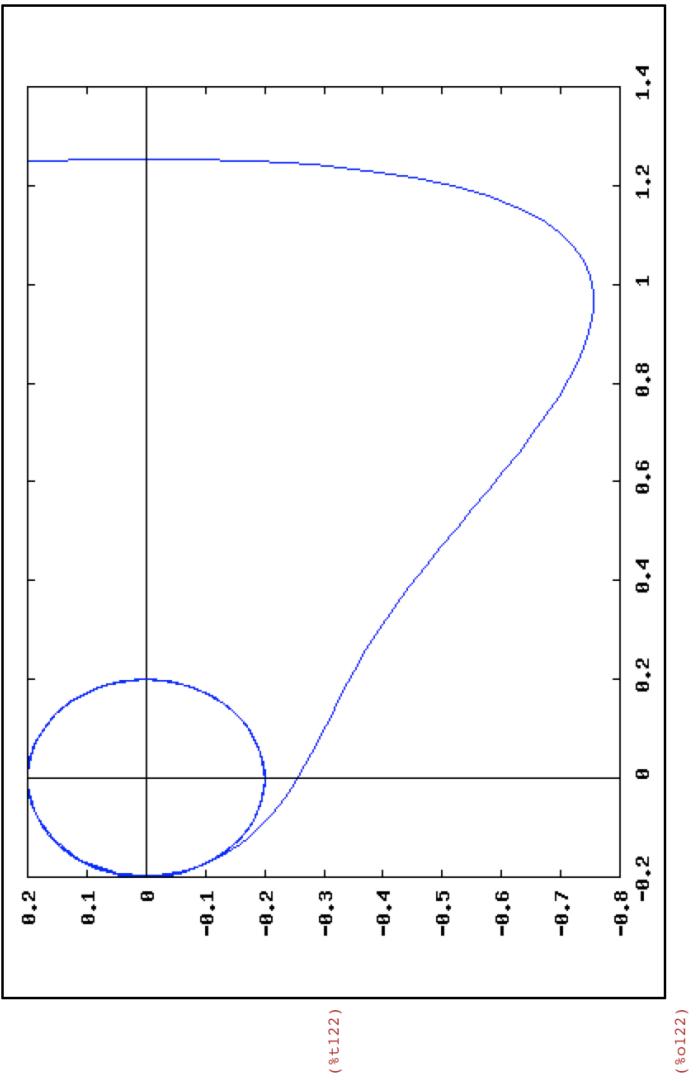
wxMaxima

File Edit Cell Maxima Equations Algebra Calculus Simplify Plot Numeric Help  13%  Sat Jan 22 2:54:03 PM Q 

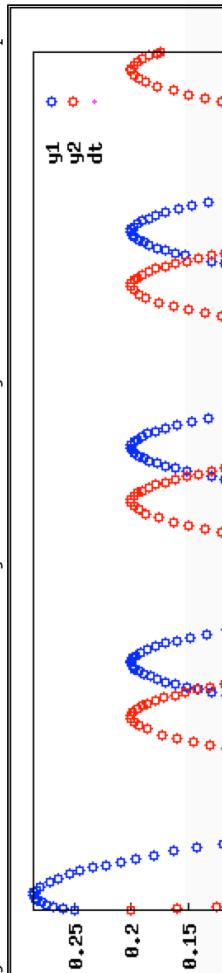
Final Maxima (2).wxmx



(%o121) **Fontconfig error:** Cannot load default config file fontconfig: Couldn't find font. when opening font "arial", using internal non-scalable font
fontconfig: Couldn't find font. when opening font "arial", using internal non-scalable font



(--> wxtimeplot(s1);
Fontconfig error: Cannot load default config file fontconfig: Couldn't find font. when opening font "arial", using internal non-scalable font



Welcome to wxMaxima

Maxima is calculating



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Q

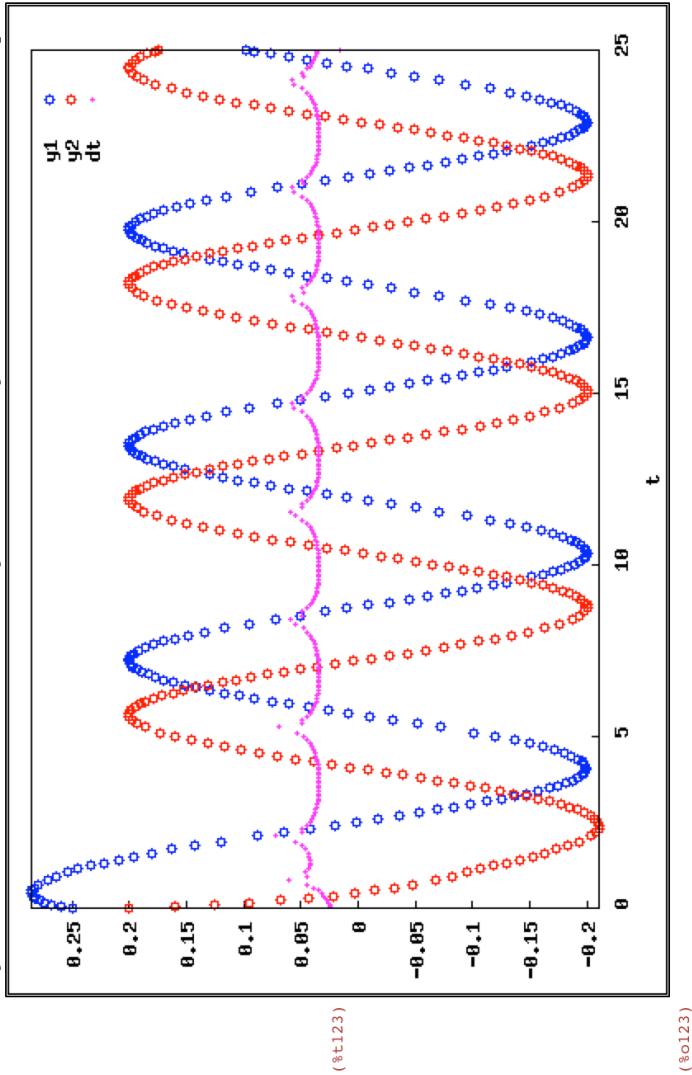
wxMaxima File Edit Cell Maxima Equations Algebra Calculus Simplify Plot Numeric Help ☰ 13% [Flash] 13% [Flash] Sat Jan 22 2:54:07 PM Q

Final Maxima (2).wxmx

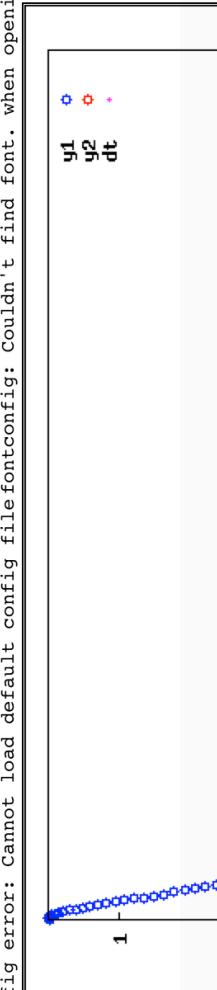


(%)o12)

→ wxtimeplot(s1);
 Fontconfig error: Cannot load default config file fontconfig: Couldn't find font. when opening font "arial", using internal non-scalable font



→ wxtimeplot(s2);
 Fontconfig error: Cannot load default config file fontconfig: Couldn't find font. when opening font "arial", using internal non-scalable font



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File Edit Cell Maxima Equations Algebra Calculus Simplify Plot Numeric Help

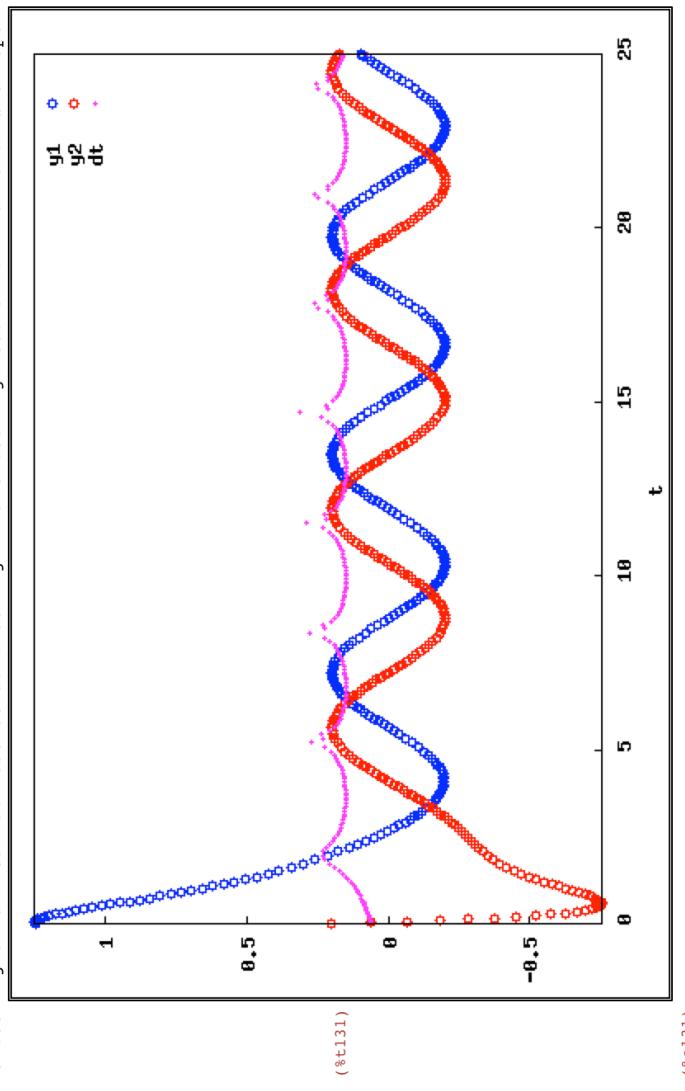
Maxima (2).wxmx Sat Jan 22 2:54:11 PM Q



(%o123)

--> wxtimeplot(s2);

Fontconfig error: Cannot load default config file fontconfig: Couldn't find font. when opening font "arial", using internal non-scalable font



(%o131)

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