

second : session maxima take over, peter.vlasschaert@gmail.com,06/02/2022

MaximaControl ("restart") = "Restart complete."

 (Diff (sin (x))) = cos (x) use :  (■) ,select for menu

MaximaTakeover ("int") = "int() handled by Maxima"

v := sin (x) v1 := sin (x . y)

Maxima Take Over int from smath :

1e step : int

use : after function use tab

2e step: press tab

3e step: select with cursor whole integral & ctrl +. use : for evaluation = ctrl + .

$$\int \sin (x) d x = -\cos (x)$$

Maxima: implimented

Int (sin (y); y) = -cos (y)

MaximaTakeover ("diff") = "diff() handled by Maxima"

sin (x)' = cos (x)

$$\frac{d^2}{d x^2} v = -\sin (x)$$

Maxima: first order, Diff,tab

$$\frac{d}{d x} \sin (x) = \cos (x)$$

Maxima: first order, Diff,tab

Diff (v; x) = cos (x)

Maxima: higher order, Diff,tab,;

Diff (v; x; 2) = -sin (x)

Diff (sin (x . y); y) = x . cos (x . y)

Maxima: higher order mixed partial y,x, Diff,tab,;

Diff (Diff (sin (x . y); y); x) = -x . y . sin (x . y) + cos (x . y)

rem :

MaximaLog ("all")

<https://www.youtube.com/watch?v=iJL2nfJiMR8>