Bryan Guner 10/25

3.1#7

syms t w x x0 x1 c1 c2

dsolve('D2x+w^(2)\*X=0')

matlab\_3

ans =

C2 + C1\*t - (X\*t^2\*w^2)/2

3.1#33

syms x y c1 c2

S=dsolve('D2y-4\*Dy+4\*y=2e^(2x)+4x-12')

>> matlab\_3

Error using symengine

Unexpected 'identifier'.

Error in sym>convertExpression (line 1449)

s = mupadmex({x});

Error in sym>convertChar (line 1364)

s = convertExpression(x);

Error in sym>tomupad (line 1164)

S = convertChar(x);

Error in sym (line 163)

S.s = tomupad(x);

Error in dsolve>mupadDsolve (line 335)

sys = [sys\_sym sym(sys\_str)];

Error in dsolve (line 193)

sol = mupadDsolve(args, options);

Error in matlab\_3 (line 3)

dsolve('D2y-4\*Dy+4\*y=2e^(2x)+4x-12')

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Error in matlab\_3 (line 3)

dsolve('D2y-4\*Dy+4\*y=2e^(2x)+4x-12')

3.4#25

syms y x c1 c2

dsolve('diff(y,4)+2\*diff(y,2)+y==(x-1)^2')

>> matlab\_3

Error using symengine

The variable is invalid.

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sys = [sys\_sym sym(sys\_str)];

Error in dsolve (line 193)

sol = mupadDsolve(args, options);

Error in matlab\_3 (line 2)

dsolve('diff(y,4)+2\*diff(y,2)+y==(x-1)^2')

3.4#33

syms x t w f0

dsolve('D2x+w^(2)\*x = f0\*sin(wt)')

>> matlab\_3

ans =

C3\*exp(t\*w\*1i) + C4\*exp(-t\*w\*1i) + (f0\*sin(wt))/w^2

3.4#37

syms x y c1 c2

dsolve('D2y+y= x^2+1')

>> matlab\_3

ans =

C3\*exp(t\*w\*1i) + C4\*exp(-t\*w\*1i) + (f0\*sin(wt))/w^2

>> matlab\_3

3.6#7

syms x y c1 c2

dsolve('(D2y)\*x^(2)-3x\*(Dy)-2y =0')

>> matlab\_3

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Error in sym>convertChar (line 1364)

s = convertExpression(x);

Error in sym>tomupad (line 1164)

S = convertChar(x);

Error in sym (line 163)

S.s = tomupad(x);

Error in dsolve>mupadDsolve (line 335)

sys = [sys\_sym sym(sys\_str)];

Error in dsolve (line 193)

sol = mupadDsolve(args, options);

Error in matlab\_3 (line 2)

dsolve('x^2\*D2y-3x\*Dy-2y=0')

>> matlab\_3

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Error in dsolve (line 193)

sol = mupadDsolve(args, options);

Error in matlab\_3 (line 2)

dsolve('(D2y)\*x^(2)-3x\*(Dy)-2y =0')

3.6#9

syms x y c1 c2 m

dsolve('25x^(2)\*D2y+25x\*Dy+y=0')

>> matlab\_3

Error using symengine

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Error in sym>convertChar (line 1364)

s = convertExpression(x);

Error in sym>tomupad (line 1164)

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sol = mupadDsolve(args, options);

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dsolve('(D2y)\*x^(2)-3x\*(Dy)-2y =0')

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sys = [sys\_sym sym(sys\_str)];

Error in dsolve (line 193)

sol = mupadDsolve(args, options);

Error in matlab\_3 (line 2)

dsolve('25x^(2)\*D2y+25x\*Dy+y=0')

3.12#23

syms x t c1 c2 c3 c4 g

f=diff(t,2)==-g;

diff(f,2)

matlab\_3

ans =

0 == 0