

```

> restart; with(DEtools);
[AreSimilar, DENormal, DEplot, DEplot3d, DEplot_polygon, DFactor, DFactorLCLM,
 DFactorsols, Dchangevar, FunctionDecomposition, GCRD, Gosper, Heunsols,
 Homomorphisms, IVPsol, IsHyperexponential, LCLM, MeijerGsols,
 MultiplicativeDecomposition, ODEInvariants, PDEchangecoords, PolynomialNormalForm,
 RationalCanonicalForm, ReduceHyperexp, RiemannPsols, Xchange, Xcommutator, Xgauge,
 Zeilberger, abelsol, adjoint, autonomous, bernoullisol, buildsol, buildsym, canoni, caseplot,
 casesplit, checkrank, chinisol, clairautsol, constcoeffsols, convertAlg, convertsys,
 dalembertsol, dcoeffs, de2diffop, dfieldplot, diff_table, diffop2de, dperiodic_sols, dpolyform,
 dsubs, eigenring, endomorphism_charpoly, equinv, eta_k, eulersols, exactsol, expsols,
 exterior_power, firint, firtest, formal_sol, gen_exp, generate_ic, genhomosol, gensys,
 hamilton_eqs, hypergeomsols, hyperode, indicialeq, infgen, initialdata, integrate_sols,
 infactor, invariants, kovacicols, leftdivision, liesol, line_int, linearsol, matrixDE,
 matrix_riccati, maxdimsystems, moser_reduce, muchange, mult, mutest, newton_polygon,
 normalG2, ode_int_y, ode_y1, odeadvisor, odepde, parametricsol, particularsol,
 phaseportrait, poincare, polysols, power_equivalent, rational_equivalent, ratsols, redode,
 reduceOrder, reduce_order, regular_parts, regularsp, remove_RootOf, riccati_system,
 riccatisol, rifread, rifsimp, rightdivision, rtaylor, separablesol, singularities, solve_group,
 super_reduce, symgen, symmetric_power, symmetric_product, symtest, transinv, translate,
 untranslate, varparam, zoom]

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(1)

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> deInHom := diff(y(t), t) = y(t) · y(t) + 4 · t · y(t) - 5 · t · t
          deInHom :=  $\frac{d}{dt} y(t) = y(t)^2 + 4 t y(t) - 5 t^2$ 

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(2)

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> DEplot(deInHom, y(t), t = 0.1 .. 2, y = -8 .. 0, arrows = large)

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