Test of Dr. H. T. Lau's femlagsym Self-Adjoint Second Order Linear Ordinary Differential Equation Solver by James Pate Williams, Jr.

The first ODE was for the fourth degree Legendre polynomial and the second was an ODE whose analytic solution is the sine trigonometric function.

2nd Order ODE	Boundary Value Prob	blem Dialog		\times
Equation C Legendre O Other 25 # Points	-1.000000 -0.920000 -0.840000 -0.760000 -0.680000 -0.600000 -0.520000 -0.440000 -0.360000 -0.280000 -0.280000 -0.120000 -0.120000 +0.040000	+1.000000 +0.334548 -0.092386 -0.330322 -0.422237 -0.406740 -0.318140 -0.186454 -0.037411 +0.107551 +0.231279 +0.320911 +0.367871 +0.367871	+0.000000 +0.000000 +0.000000 +0.000000 +0.000000 +0.000000 +0.000000 +0.000000 +0.000000 +0.000000 +0.000000 +0.000000 +0.000000 +0.000000	*
Compute	Clear	ОК	Cancel	

2nd Order ODE Boundary Value Problem Dialog				
Equation C Legendre Other 25 # Points	+0.000000 +0.125664 +0.251327 +0.376991 +0.502655 +0.628319 +0.753982 +0.879646 +1.005310 +1.130973 +1.256637 +1.382301 +1.507964 +1.633628	+0.000000 +0.125334 +0.248691 +0.368126 +0.481755 +0.587787 +0.684549 +0.770515 +0.844330 +0.904829 +0.951058 +0.982289 +0.998028 +0.998028	+0.000000 +0.000000 +0.000001 +0.000001 +0.000002 +0.000002 +0.000002 +0.000002 +0.000002 +0.000002 +0.000002 +0.000002 +0.000002 +0.000002 +0.000002	
Compute	Clear	OK	Cancel	





