

%y2

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%PHYS 428

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%u2 is solution to $y'(t)$, v2 is solution to $y(t)$

function y2(u1,v1)

format long

u2=u1+(0.5/6)*((-sin(u1)) - 2*(sin(u1 - 2*(sin(u1)))) - 2*(sin(u1 - 2*((✓
sin(u1 - 2*sin(u1)))))) - ((sin(u1 - 2*(sin(u1 - 2*(sin(u1 - 2*sin(u1))))))))

v2=v1*((0.5^4)/24+(0.5^3)/6+(0.5^2)/2+0.5+1)

end