Title: Second order scalar autonomous ODE's.

Abstract: Consider an equation of the form u' = v, v' = F(u,v), where F is an infinitely differentiable function of the two real variables (u,v). The main theorem to be presented is:t: if F (u,-v) = F (u, ,then, under mild additional conditions, there exists a infinitely differentiable change of variables onto R2, from (u,v) t(x,y), such that the new variables the equation becomes x' = y, y' = g(x).