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equation (in other words, a solution for  $t$  !  
1). Use this equation to obtain the time evolution  $\langle N \rangle_t$  of the average value of  $N$ . Compare this analytical form with the results of your simulations. \*\*\* Note that  $\langle N \rangle_t = X N_1 N_1 P(N_1; t)$ : Using the stochastic equation, it is easy to see that  $\langle N \rangle_{t+\Delta t} = \langle N \rangle_t + \Delta t \dots$ ; which leads

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$y = q$   $?(?x)p = q + xp$  (12.6) We can then  
eliminate  $p$  in favor of  $x$  in eq. (12.3) and  
solve for  $y = y(x)$ . There is no loss of  
information in either the direct or inverse  
Legendre transform. 12.1.5 Legendre  
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