The purpose of this investigation was to determine some biological parameters of the predator, *Nabis pseudoferus* Rem. (Hemiptera: Nabidae), feeding on the Egyptian cotton leaf worm *Spodoptera littoralis* Boisd. (Lepidoptera: Noctuidae). Experiments were conducted in a climatic chamber at 25 ±1 °C and 60 ± 5 % RH under 16:8 light:dark photoperiod. *N. pseudoferus* feeding on *S. littoralis* individuals being on cotton seedlings kept in cages (12x8x7 cm) was used for the experiments. Mortality rate was 33.33% and females laid an average of 50.92 eggs during their life time. From the constructed life table, the following parameters were obtained: the intrinsic rate of increase (*r_m*, 0.079 females/female/day), net reproduction rate (*R_o*, 31.00 females/female), mean generation time (*T_o*, 43.246 days), gross reproductive rates (GRR, 37.992), doubling time (*T_2*, 8.729) and the finite rate (*λ*) of *N. pseudoferus* (1.083), respectively.