- (1) The initial coordinates and velocities of the galaxy center are set up for galaxy A and galaxy B exactly as described in Part I. In addition, galaxy A and galaxy B are rotated to produce inclination angles i_A, i_B and arguments ω_A, ω_B for the pericenter.
- (2) The inclination angles and the arguments of the pericenter are given by one of the following three choices:
 (a) i_A = 15⁰, i_B = 60⁰, ω_A = -90⁰, ω_B = -90⁰,
 (b) i_A = 25⁰, i_B = 40⁰, ω_A = -90⁰, ω_B = -90⁰,
 (c) i_A = 25⁰, i_B = 40⁰, ω_A = -30⁰, ω_B = 60⁰.
 You will find the definitions of those angles in Toomre and Toomre in Fig.6. The paper is posted in Lecture 14.
- (3) Chose one pair from the following allowed initial data: $R_{init} = 44$, or $R_{init} = 42$, $R_0 = 2.5$, or $R_0 = 3.0$. This defines twelve combinations. Each student will sign up with the TA for one of the combinations. They all have to be different.
- (4) Generate the corresponding treebodi data file for input to treecode.