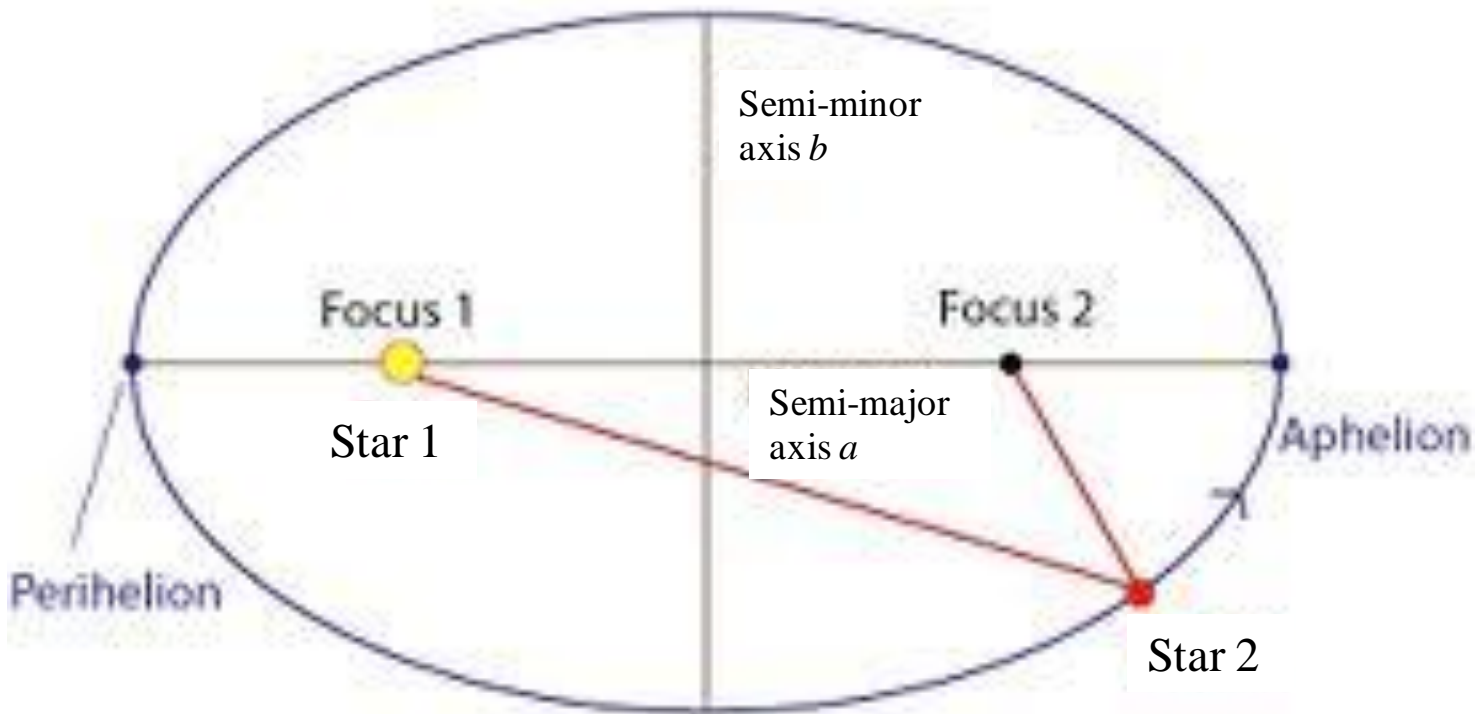
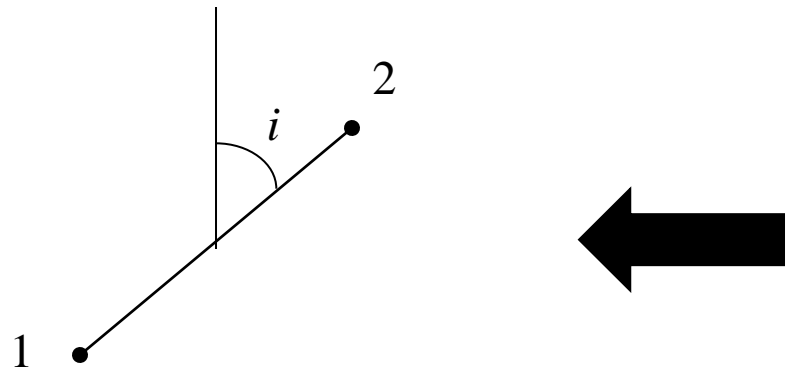


Zeilik Fig 1-14

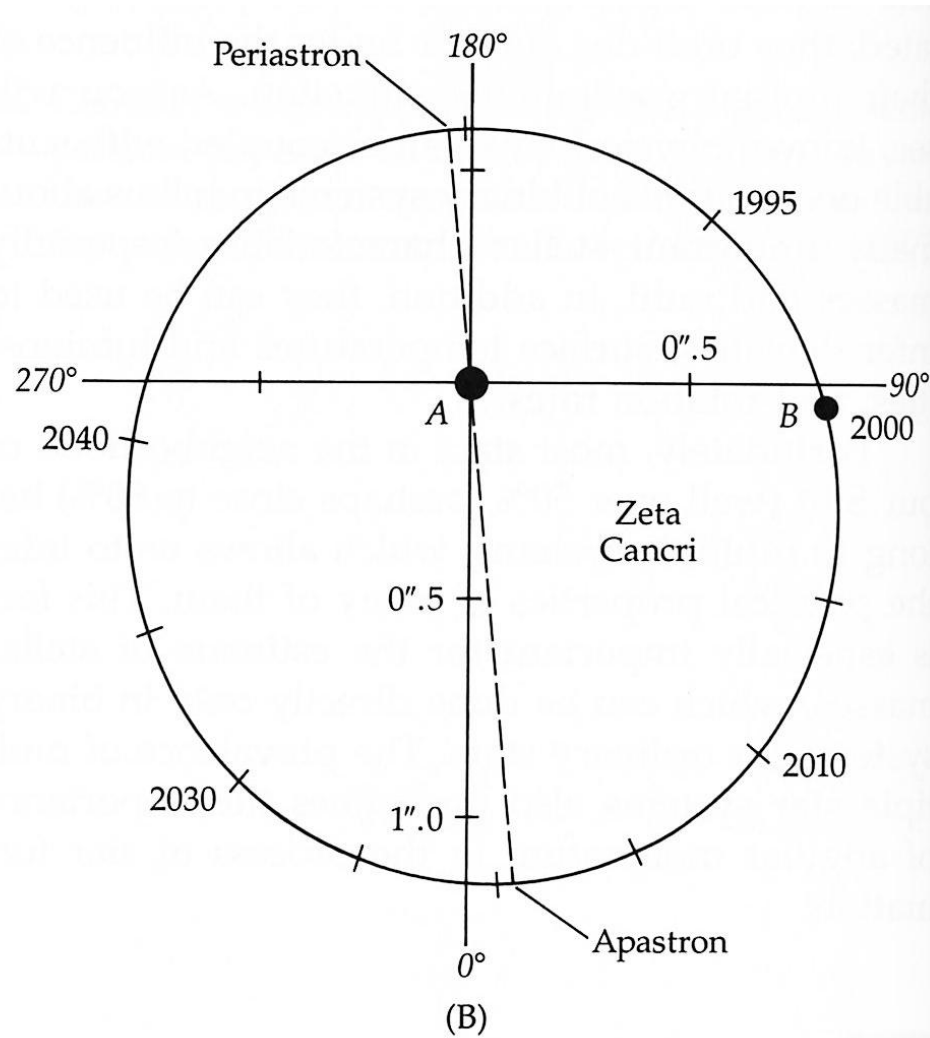
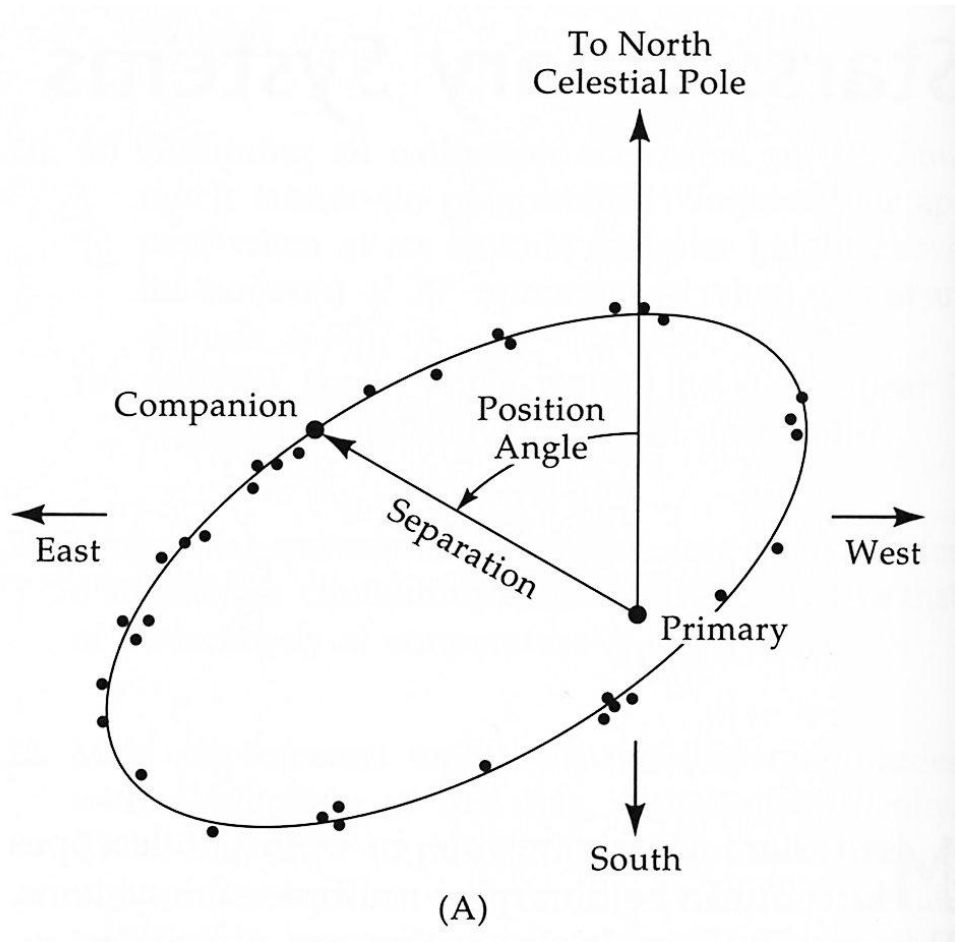


Elliptical orbit

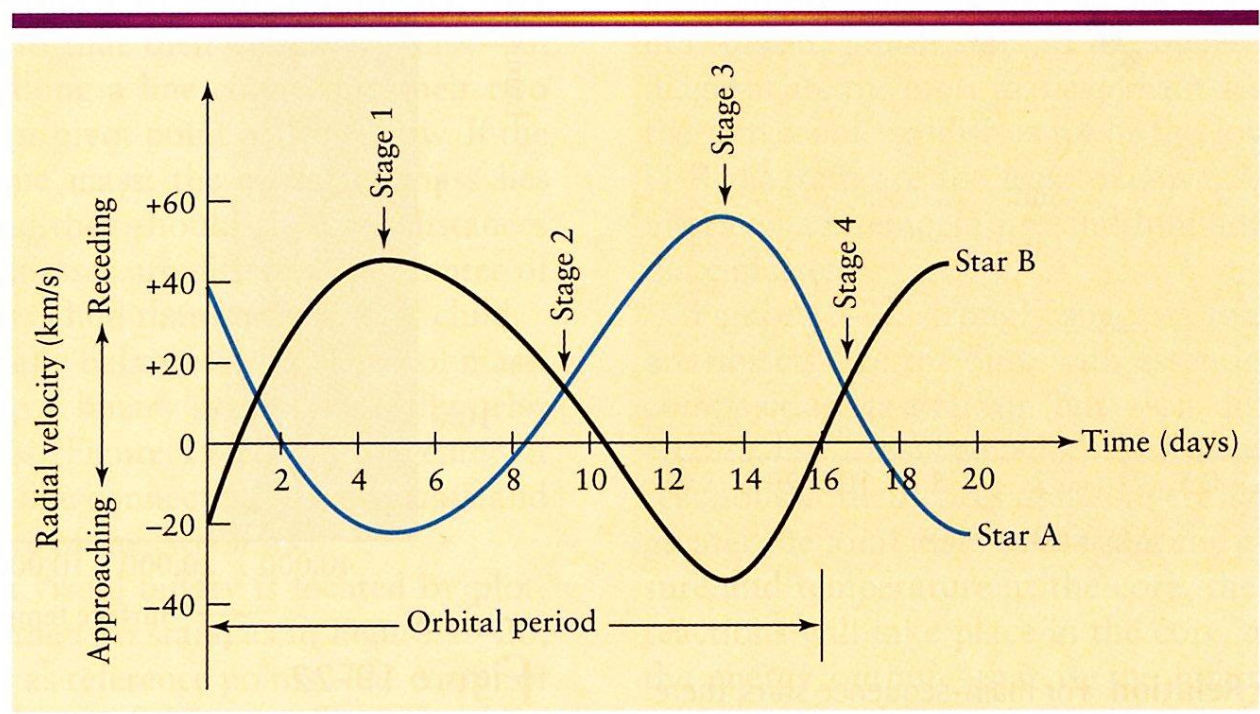
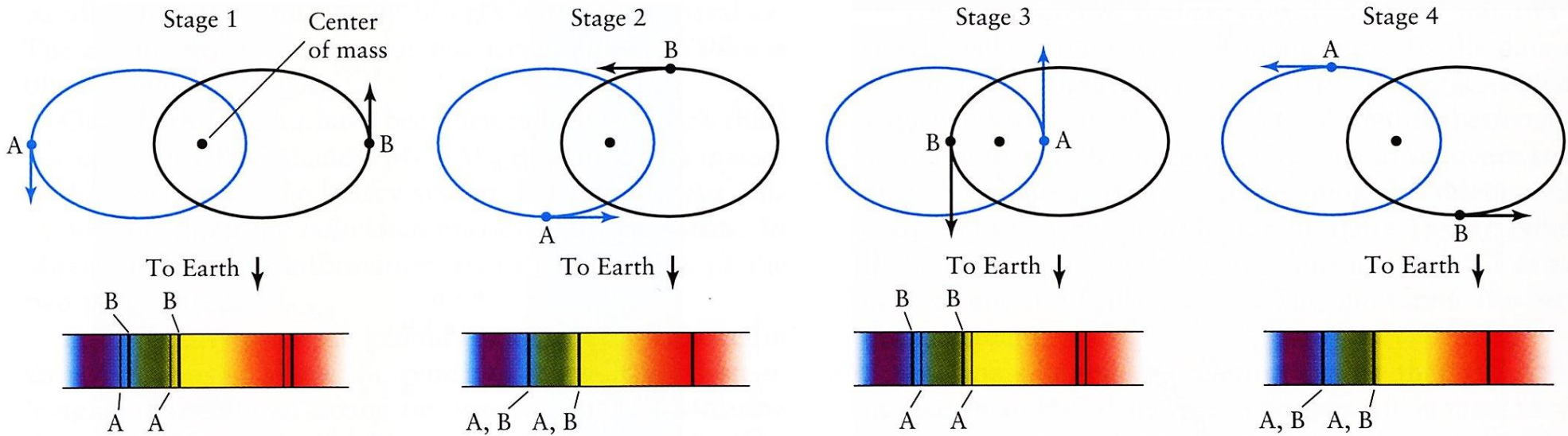
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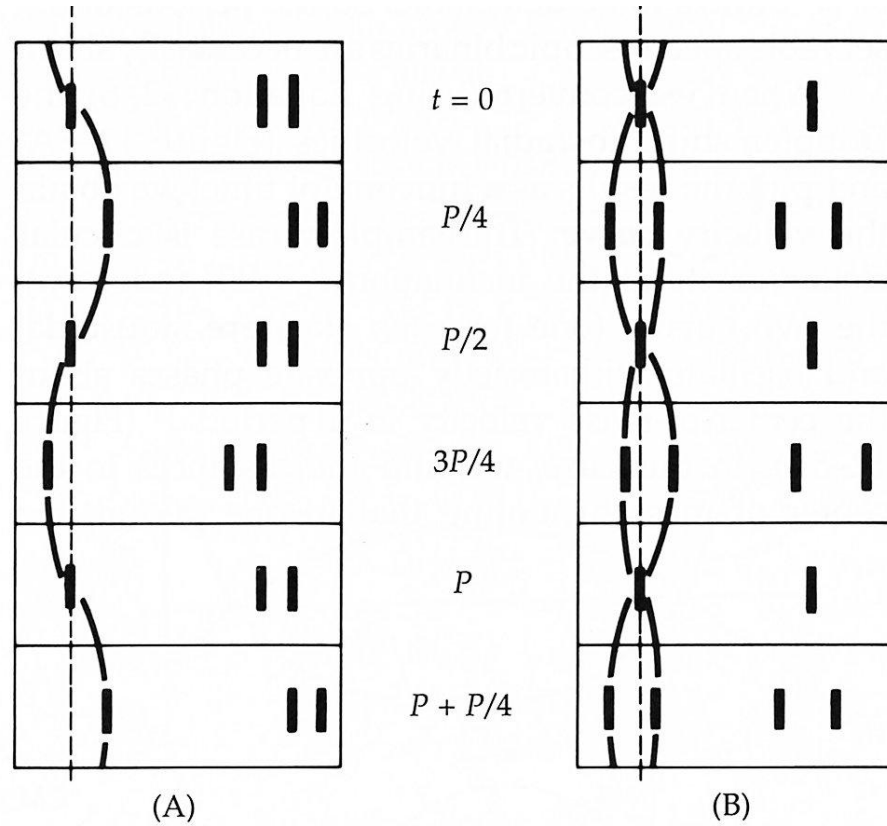
Inclination of orbit to line of sight

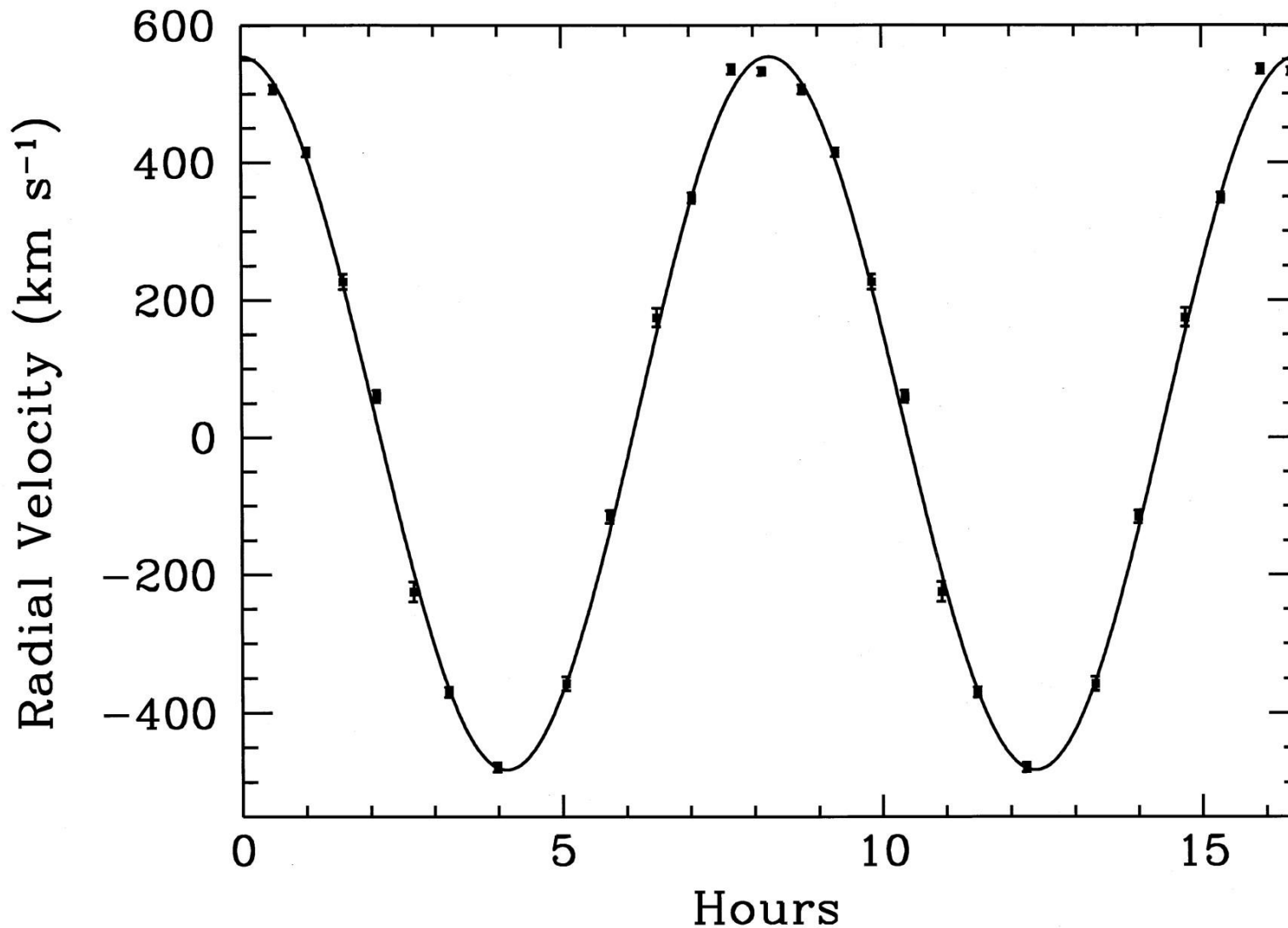


Zeilik Fig 12-1



Pattern of motion of the spectral lines in single-lined (left) and double-lined (binary) spectroscopic binaries





Radial-velocity curve of the visible star in the X-ray binary GS 2000 + 25.  
(From Filippenko et al. (1999) [www.pnas.org/content/96/18/9993.full](http://www.pnas.org/content/96/18/9993.full))  
Shows that invisible, compact, companion star is a 5 solar mass black hole.