

5. On a 12.0 cm diameter CD, digital bits of information are encoded sequentially along an outward spiraling path. The spiral starts at a radius $R_1 = 2.50$ cm and winds its way out to radius $R_2 = 5.80$ cm. To read the digital information, a CD player rotates the CD so that the player's readout-laser scans along the spiral's sequence of bits at a constant linear velocity of 1.20 m/s. Thus the player must accurately adjust the rotational frequency of the CD at the different radii. Determine the **two** extreme values for the rotational motion in rpms.

6. The tires of a car make 65 revolutions as the car reduces its speed uniformly from 95.0 km/h to 45.0 km/h. The tires have a diameter of 0.80 m.
***Watch out for necessary unit conversions*
- What was the angular acceleration of the tires?
 - If the car continues to decelerate, how much more time is required for it to stop?