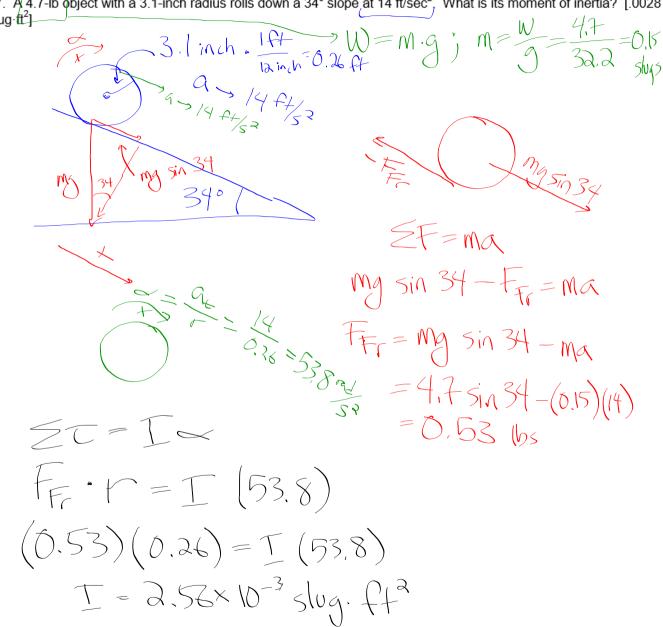
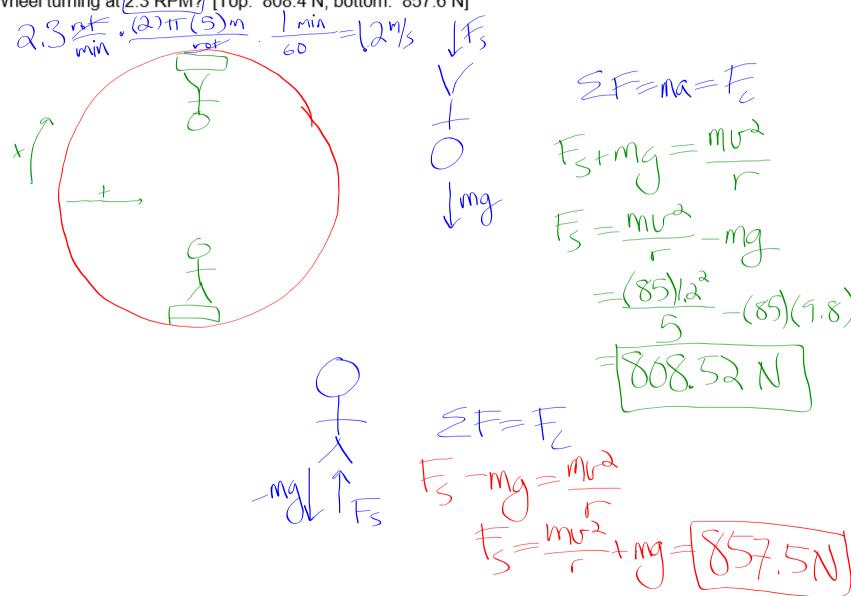
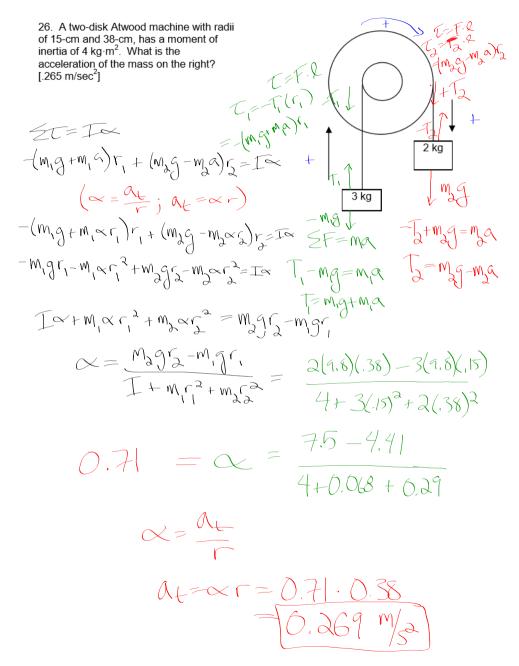
27. A 4.7-lb object with a 3.1-inch radius rolls down a 34° slope at 14 ft/sec2, What is its moment of inertia? [.0028] slug-tt2]



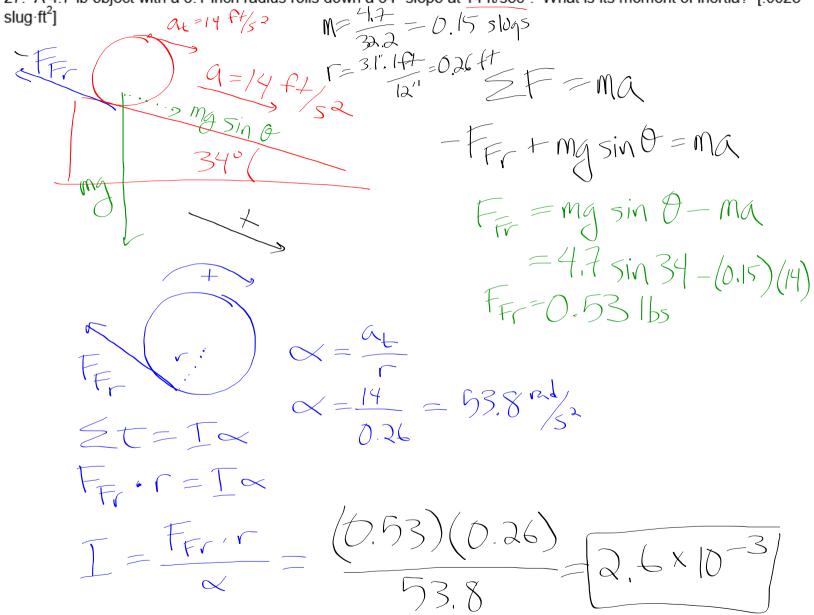
22. What are the apparent weights of a 85-kg passenger at the top and the bottom of a 5-meter radius Ferris Wheel turning at 2.3 RPM? [Top: 808.4 N; bottom: 857.6 N]



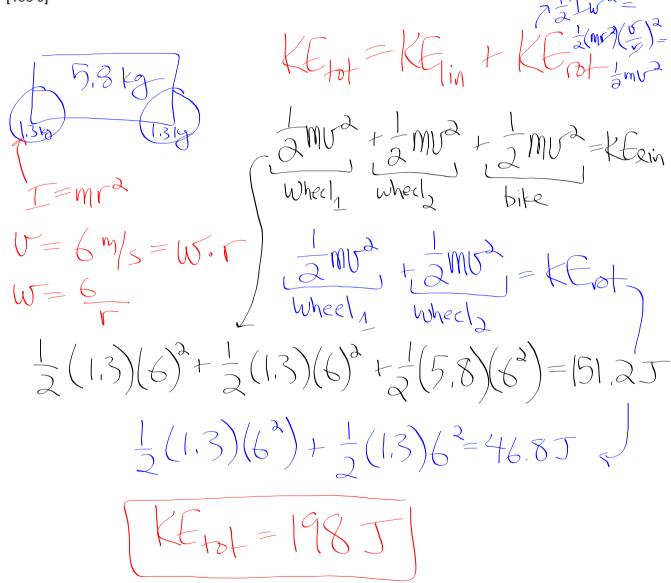
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27. A 4.7-lb object with a 3.1-inch radius rolls down a 34° slope at 14 ft/sec2. What is its moment of inertia? [.0028]



29. A bicycle has a 5.8 kg frame and two wheels, each at 1.3 kg. What is its total kinetic energy when it's rolling at 6 m/sec? [198 J]



24. Calculate the moment of inertia of the system shown at right. Assume the system rotates about point P. [1.05 kg·m²]

19. A car speeds over a hill at 18 m/sec. If the hill has a radius of 130 meters, what is the apparent weight of a 70-kg passenger at the top of the hill? [511.5 N]

