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18-1. SOLUTION = Q.E.D.  $1/2 I C v^2 = 1/2 A m r^2 G > I C + I G B v^2$  However  $m r^2 G > I C + I G = 1/2 m (v r G > I C)^2 + 1/2 I G v^2 T = 1/2 m y^2 G + 1/2 I G v$  where  $y G = v r G > I C$  At a given instant the body of mass m has an angular velocity and its mass center has a velocity . Show that its kinetic energy can be represented as , where I is the moment of inertia of the body determined about

**18-1.**

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Solution: The total moment about the center of mass must equal zero:  $\Sigma M = (18)(F \sin 5^\circ) - (2)(F \cos 5^\circ) - (12)(F \sin 6^\circ) + (2)(F \cos 6^\circ) = 0$  Setting  $F = 4000$  N and solving  $F = 2306$  N. From Newton's sec- ond law  $\Sigma F = (F \cos 5^\circ - F \cos 6^\circ) - (F \sin 5^\circ + F \sin 6^\circ) = 54,000$  a, we obtain  $a = 0.0313$  i -  $0.0109$  j (m/s<sup>2</sup>).

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SOLUTION Principle of Impulse and Momentum:The mass moment inertia of the pulley about point O is 2 . The angular velocity of the pulley and the velocity of the block can be related by . Applying Eq. 19-15, we have a  $y B = 24.1$  m>s Ans. = -  $40y B(0.2) - 0.1815(5y B)$

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A man kicks the 150-g ball such that it leaves the ground at an angle of 60° and strikes the ground at the same elevation a distance of 12 m away. Determine the impulse of his foot on the ball at A. Neglect the impulse caused by the ball's weight

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Seventh Vector Mechanics for Engineers: Dynamics Edition 13 - 18 Sample Problem 13.4 A 2000 lb car starts from rest at point 1 and moves without friction down the track shown. Determine: a) the force exerted by the track on the car at point 2, and b) the minimum safe value of the radius of curvature at point 3. SOLUTION: