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Motion of P: The magnitude of the velocity of point P can be determined using Eq. 16-8. Ans. The tangential and normal components of the acceleration of point P can be determined using Eqs.

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16-11 and 16-12, respectively. The magnitude of the acceleration of point P is  $a_P = 2a_r + a_n = 2(12.89 \text{ m/s}^2) + 31.86 \text{ m/s}^2 = 57.64 \text{ m/s}^2$ . Ans.  $a_n = v^2 / r = 13.18 \text{ m/s}^2$ . Ba. 2. 12

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Solution Equation of Motion. The mass moment of inertia of the disk about its mass center  $O$  is  $I_O = Mr^2 = (10) (0.152)^2 = 0.1125 \text{ kg} \cdot \text{m}^2$ . When the disk undergoes a small angular displacement  $u$ , the top spring stretches further but the stretch of the spring is being reduced both by  $s = ru = 0.15u$ .

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Engineering Mechanics - Dynamics Chapter 12 Problem 12-1 A truck traveling along a straight road at speed  $v_1$ , increases its speed to  $v_2$  in time  $t$ . If its acceleration is constant, determine the distance traveled. Given:  $v_1 = 20 \text{ km/hr}$   $v_2 = 120 \text{ km/hr}$   $t = 15 \text{ s}$  Solution:  $a = \frac{v_2 - v_1}{t} = \frac{100}{15} = 6.67 \text{ m/s}^2$   $d = v_1 t + \frac{1}{2} a t^2 = 20(15) + \frac{1}{2}(6.67)(15)^2 = 150 + 750 = 900 \text{ m}$

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16.1  $t^2 + 18.888t - 30 = 0$ .  $30 = 0 + 31.48a$ .  $35. \text{bt} + 1.2(32.2)t^2$ .  $A + TB = s_0 + v_0 t - \frac{1}{2} a t^2$ .  $d = 0 + 31.48a$ .  $45. \text{bt}$ .  $a + b = s_0 + v_0 t$ .  $v_B = 31.48 \text{ ft/s} = 31.5 \text{ ft/s}$ .  $1.2$ .  $a = 32$ .  $b(5)^2 + 2(15) = 1.2$ .  $a = 32$ .  $b = 2$ .  $B$ .  $TA + \text{©}UA - B = TB$ . 14-27.

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