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2-2. y. resultant force and its direction, measured counterclockwise from the positive x axis.  $F_u = 15\,700\text{ N}$ . SOLUTION The parallelogram law of addition and the triangular rule are shown in Figs ...

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SOLUTION. Ans. Ans. 19.  $\sin 1.47^\circ = \frac{30}{R} \sin u$ ;  $u = 2.37^\circ$   $F_R = \sqrt{2^2 + (30.85)^2} = 30.9$   
 $+ (50)^2 - 2(30.85)(50) \cos 1.47^\circ = 19.18 = 19.2$  N.  $30 \sin 73.13^\circ = 28.5$   
 $\sin (70^\circ - u)$ ;  $u = 1.47^\circ$   $F_x = \sqrt{2^2 + (30)^2 - 2(20)(30) \cos 73.13^\circ} = 30.85$  N. Determine the magnitude and direction of the resultant of the three forces by first finding the resultant  $F_{12} = F_1 + F_2$  and then forming  $F_R = F_{12} + F_3$ .

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$P + Q = 13:333i + (8:944 + 13:333)j + (17:889 - 6:667)k = 13:333i + 4:389j + 11:222k$  kN  
 $MO = r(P + Q) = i j k \begin{vmatrix} 2 & 0 & 4 \\ 13:333 & 4:389 & 11:222 \\ 17:56i & 75:78j & 8:78k \end{vmatrix}$  kN m  
J 2.40 Noting that both P and Q pass through A, we have  $MO = r_{OA}(P + Q)$   
 $r_{OA} = 2k$  ft  
 $P = 60 \begin{pmatrix} 4:2i \\ 2j \\ 2k \end{pmatrix} = p \begin{pmatrix} (4:2)^2 \\ (2)^2 \\ 22 \end{pmatrix} = 49:77i + 23:70j + 23:70k$  lb  
 $Q = 80 \begin{pmatrix} 2i \\ 3j \\ 2k \end{pmatrix} = p \begin{pmatrix} (2)^2 \\ (3)^2 \\ 22 \end{pmatrix} = 38:81i + 58:21j + 38:81k$  lb  
 $P + Q = 88:58i + 81:91j + 62:51k$  lb  
)  $MO = i j k \begin{vmatrix} 0 & 0 & 2 \\ 163:8i & 177:2j & 1b \end{vmatrix}$  ft  
J 2.41 88:58 81:91

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•7-13. Determine the internal normal force, shear force,

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SOLUTION  $v_2 = 30 \text{ km/h} = 8.33 \text{ m/s}$   
 $v_2^2 = v_1^2 + 2ac(s_2 - s_1)$   $(8.33)^2 = 0 + 2ac(20 - 0)$   
 $ac = 1.74 \text{ m/s}^2$   
 $v_2 = v_1 + ac t$   $8.33 = 0 + 1.74(t)$   
 $t = 4.80 \text{ s}$  Ans. Ans. 10. \* 12-8. A particle moves along a straight line with an acceleration of  $a = 5(3s_1^3 + 5s_2^2) \text{ m/s}^2$ , where  $s$  is in meters.

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