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SOLUTION. Ans.

$$\text{Ans. 19. } \sin 1.47^\circ =$$

$$30. \sin u; u=2.37^\circ$$

$$FR= 2 (30.85)^2 +(50)^2$$

$$2 - 2(30.85)(50) \cos$$

$$1.47^\circ = 19.18 = 19.2 \text{ N.}$$

$$30. \sin 73.13^\circ = 30.$$

$$\sin (70^\circ - u);$$



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$$u_{ij} = 1.47^\circ \quad F_{ij} = 2(20)$$

$$2 + (30)^2 - 2(20)(30)$$

$$\cos 73.13^\circ = 30.85 \text{ N.}$$

Determine the magnitude and direction of the resultant of the three forces by first finding the resultant  $F_{ij} = F_1 + F_2$  and then forming  $F_R = F_{ij} + F_3$ .

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$$\begin{aligned} P + Q &= 13.333i + (8.944 + 13.333)j + (17.889 - 6.667)k = \\ &= 13.333i + 22.277j + 11.222k \text{ kN} \\ MO &= r(P + Q) = \begin{vmatrix} i & j & k \\ 2 & 0 & 4 \\ 13.333 & 22.277 & 11.222 \end{vmatrix} \end{aligned}$$

$$\begin{aligned} &= 17.56i - 75.78j + 8.78k \text{ kN m} \\ &J = 2.40 \end{aligned}$$

Noting that both P and Q pass through



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A, we have  $MO = rOA$

$$(P + Q) rOA = 2k \text{ ft } P \\ = 60 \text{ lb } (4i + 2j + 2k) = p \left( (4)^2 + (2)^2 + 2^2 \right)$$

$$49.77i + 23.70j + 23.70k$$

$$\text{lb } Q = 80 \text{ lb } (2i + 3j + 2k) = p \left( (2)^2 + (3)^2 + 2^2 \right)$$

$$38.81i + 58.21j + 38.81k$$

$$\text{lb } P + Q = 88.58i$$

$$81.91j + 62.51k \text{ lb } )$$

$$MO = i \ j \ k \ 0 \ 0 \ 2 =$$

$$163.8i + 177.2j \text{ lb ft } J$$

$$2.41 \ 88.58 \ 81.91$$

$$62.51$$

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SOLUTION  $v_2 = 30$   
 $\text{km/h} = 8.33 \text{ m/s}$   
 $v_2 = v_1 + 2 ac (s_2 -$   
 $s_1) (8.33)^2 = 0 + 2 ac$   
 $(20 - 0) ac = 1.74$   
 $\text{m/s}^2 v_2 = v_1 + ac t$

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8.33 = 0 + 1.74 (t) t =  
4.80 s Ans. Ans. 10. \*  
12–8. A particle  
moves along a  
straight line with an  
acceleration of  $a = 5s$   
( $3s^1 + s^5$ )  $m/s^2$   
, where  $s$  is in meters.

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