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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

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SOLUTION. Ans.

Ans. 19. sin

$$1.47^\circ = 30. \sin$$

$$u; u=2.37^\circ \quad FR= 2$$

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

$$2 - 2(30.85)(50)$$

cos

$$1.47^\circ = 19.18 = 19.2$$

N. 30. sin

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

$$(70^\circ - u_\zeta);$$

$$u_\zeta = 1.47^\circ \quad F_\zeta = 2$$

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$$\begin{aligned} & (20)^2 + (30)^2 - \\ & 2(20)(30) \cos \\ & 73.13^\circ = 30.85 \text{ N.} \end{aligned}$$

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

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$$\begin{aligned} P + Q &= 13:333i \\ &+ (8:944 + \\ &13:333) j + \\ &(17:889 \ 6:667) k \\ &= 13:333i + \end{aligned}$$

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4:389j + 11:222k

$$M_O = r_{O/A} \cdot (P + Q) = (4\mathbf{i} + 2\mathbf{j} + 2\mathbf{k}) \cdot (60\mathbf{i} + 2\mathbf{j} + 2\mathbf{k})$$

$$= 4(60) + 2(2) + 2(2) = 244 \text{ kN}\cdot\text{m}$$

$$= 244 \text{ kN}\cdot\text{m} = 17.56 \text{ kJ}$$

$$= 75.78 \text{ kJ} + 8.78 \text{ kJ}$$

$$= 84.56 \text{ kJ} \approx 84.6 \text{ kJ}$$

Noting that both P and Q pass

through A, we

have $M_O = r_{O/A} \cdot (P + Q)$
 $r_{O/A} = 2\mathbf{k}$ ft

$$P = 60\mathbf{i} + 2\mathbf{j} + 2\mathbf{k}$$

$$= 60(4) + 2(2) + 2(2) = 244 \text{ kN}\cdot\text{m}$$

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$$\begin{aligned}
 & (2)^2 + 22 \\
 & 49:77i \quad 23:70j \quad + \\
 & 23:70k \quad \text{lb } Q = 80 \\
 & 2i \quad 3j + 2k = p \quad (\\
 & 2)^2 + (3)^2 + 22 \\
 & 38:81i \quad 58:21j \quad + \\
 & 38:81k \quad \text{lb } P + Q \\
 & = 88:58i \quad 81:91j \\
 & + 62:51k \quad \text{lb }) \quad MO \\
 & = i \quad j \quad k \quad 0 \quad 0 \quad 2 = \\
 & 163:8i \quad 177:2j \quad \text{lb} \\
 & \text{ft } J \quad 2.41 \quad 88:58 \\
 & 81:91 \quad 62:51
 \end{aligned}$$

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internal normal
force, shear
force,

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SOLUTION $v_2 = 30$

$\text{km/h} = 8.33 \text{ m/s}$

$v_2^2 = v_1^2 + 2$

$a_c (s_2 - s_1)$

$(8.33)^2 = 0 + 2$

$a_c (20 - 0) \quad a_c =$

$1.74 \text{ m/s}^2 \quad v_2 =$

$v_1 + a_c t \quad 8.33 =$

$0 + 1.74 (t) \quad t =$

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

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