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$$1.47^\circ = 30. \sin u; u = 2.37^\circ$$

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$$1.47^\circ = 19.18 = 19.2 \text{ N. } 30. \sin$$

$$73.13^\circ = 30. \sin (70^\circ - u);$$

$$u = 1.47^\circ \quad F = \sqrt{2 \left( (20)^2 + (30)^2 \right) - 2(20)(30) \cos$$

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13.40 Noting that both P and Q pass through A, we have  $M_O = r_{OA} \times (P + Q)$

$$= (2\mathbf{i} + 4\mathbf{j} + 2\mathbf{k}) \times (P\mathbf{i} + 4P\mathbf{j} + 2P\mathbf{k} + Q\mathbf{i} + 23Q\mathbf{j} + 23Q\mathbf{k})$$

$$= (2P + 4Q)\mathbf{i} + (2P - 4Q)\mathbf{j} + (2P - 23Q)\mathbf{k}$$

Setting  $M_O = 0$ , we have

$$(2P + 4Q) = 0 \quad (2P - 4Q) = 0 \quad (2P - 23Q) = 0$$

Solving these equations, we find  $P = 0$  and  $Q = 0$ .

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$$\begin{aligned} P + Q &= 88:58i \quad 81:91j \quad + \\ &62:51k \quad \text{lb} \quad ) \quad M_O = i \quad j \quad k \quad 0 \quad 0 \quad 2 \\ &= 163:8i \quad 177:2j \quad \text{lb ft} \quad J \quad 2.41 \\ &88:58 \quad 81:91 \quad 62:51 \end{aligned}$$

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 $a c = 1.74 \text{ m/s}^2$   
 $v_2 = v_1 + a c t$   
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