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•2-61. Express each force acting on the pipe assembly in Cartesian vector form.



Rectangular Components: Since $\cos^2 \alpha_1 + \cos^2 \beta_1 + \cos^2 \gamma_1 = 1$, then $\cos \beta_1 = \sqrt{1 - \cos^2 60^\circ - \cos^2 120^\circ} = 0.7071$.

However, it is required that $\beta_1 > 90^\circ$, then, $\beta_1 = \cos^{-1}(-0.7071) = 135^\circ$. By resolving F_1 and F_2 into their x , y , and z components, as shown in Figs. a and b, respectively, F_1 and F_2 can be expressed in Cartesian vector form, as

$$F_1 = 600 \left(\frac{1}{\sqrt{2}} \right) (\mathbf{i} + \mathbf{j}) + 600 \left(\frac{1}{\sqrt{2}} \right) (\mathbf{i} + \mathbf{k})$$

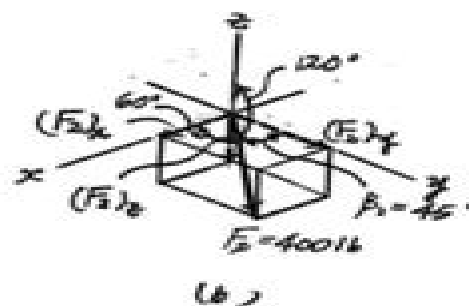
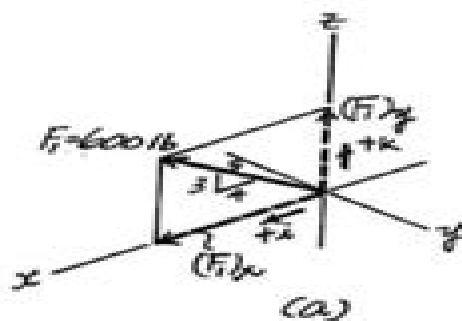
$$= [424\mathbf{i} + 424\mathbf{j} + 424\mathbf{k}] \text{ N}$$

Ans.

$$F_2 = 400 \cos 60^\circ \mathbf{j} + 400 \cos 45^\circ \mathbf{i} + 400 \cos 120^\circ \mathbf{k}$$

$$= [200\mathbf{i} + 200\mathbf{j} - 200\mathbf{k}] \text{ N}$$

Ans.



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