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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  $\cos \beta_1 = \sqrt{1 - \cos^2 60^\circ} = \cos 60^\circ = 0.7071$ .

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

$$F_1 = 600 \left( \frac{4}{5} \right) i + 0j + 600 \left( \frac{3}{5} \right) k$$

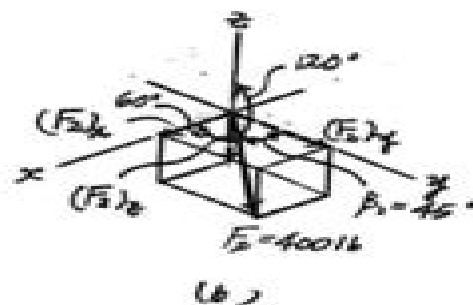
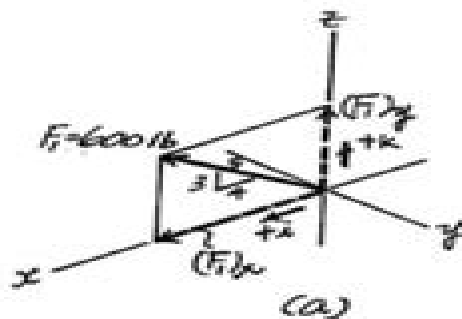
$$= \{480i + 360k\} \text{ N}$$

Ans.

$$F_2 = -400 \cos 60^\circ i + -400 \cos 45^\circ j + 400 \cos 120^\circ k$$

$$= \{200i + 283j - 200k\} \text{ N}$$

Ans.



# Hibbeler Statics Solution Manual 12

**Sabine Zange**



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