4-103 page 167. Replace the two forces by an equivalent resultant force and a couple moment at point $O$. Set $F = 15$ lb.
Example 4: Replace the force system acting on the pipe assembly by a resultant force and couple moment at point $O$. Express the results in Cartesian vector form.

\[ \mathbf{F}_1 = [-20i - 10j + 25k] \text{ lb} \]
\[ \mathbf{F}_2 = [-10i + 25j + 20k] \text{ lb} \]