

## Problem 2

Determine if the two sets of forces shown below are statically equivalent.



A

$$\sum F_x = \underline{0}$$

$$\sum F_y = \underline{-60 \text{ lbs}}$$

$$\sum M_o = -(60)(6) = \underline{-360 \text{ ft}\cdot\text{lbs}}$$

B

$$\sum F_x = \underline{0}$$

$$\sum F_y = 20 - 80 = \underline{-60 \text{ lbs}}$$

$$\sum M_o = -(80)(4) - (20)(2) = \underline{-360 \text{ ft}\cdot\text{lbs}}$$

These forces are statically equivalent to one another