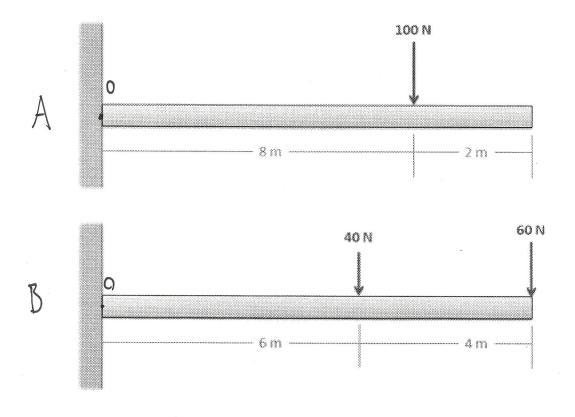
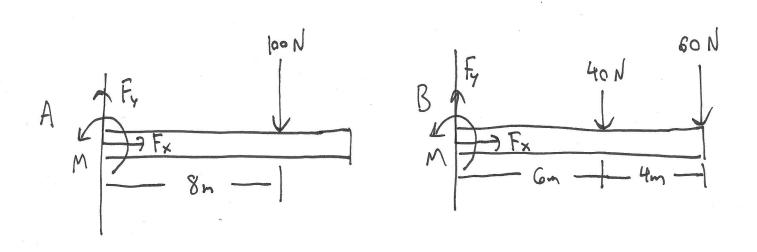
## Question 1:

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





$$\sum F_{x} = F_{x} = 0$$

$$\sum F_{y} = F_{y} - 100 = 0$$

$$\sum M_{0} = M - (100)(8) = 0$$

$$M_A \neq M_B$$

The two sets of forces are not statically equivalent

B  

$$\Sigma F_{x} = F_{x} = 0$$

$$\Sigma F_{y} = F_{y} - 40 - 60 = 0$$

$$\Sigma M_{o} = M - (40)(6) - (60)(10)$$