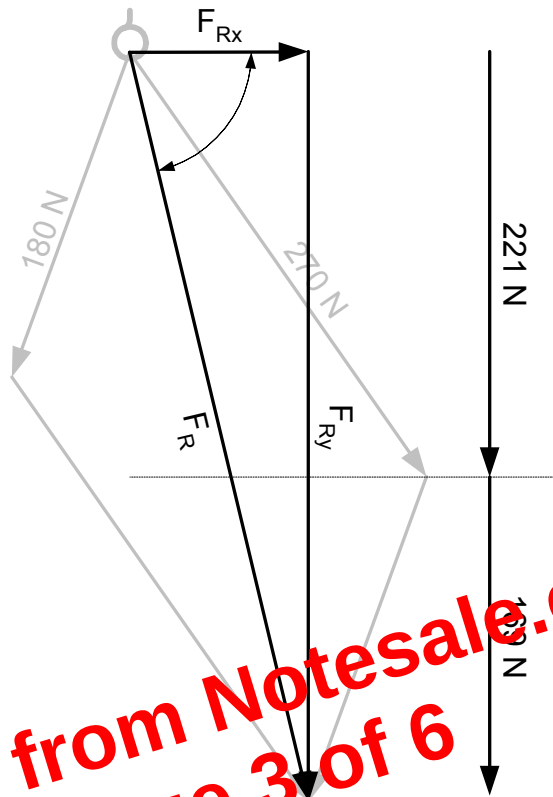


Solution, continued

To determine the combined force on the hook, F_R , first add the two y-components calculated above, to determine the combined y-directed force, F_{Ry} , on the hook:



» $F_{Ry} = F_{y1} + F_{y2}$

$$F_{Ry} =$$

$$390.3157$$

The y-component of the resultant force is 390 N (directed down, or in the $-y$ direction). Note that the direction has not been accounted for in this calculation.

Then add the two x-components to determine the combined x-directed force, F_{Rx} , on the hook. Note that the two x-component forces are acting in opposite directions, so the combined x-directed force, F_{Rx} , is smaller than either of the components, and directed in the $+x$ direction.