



Find the x and y components of the sum of the forces A (674 N) and B (598 N).

$$\vec{A}: 674\text{N} \cos(-28^\circ)\hat{i} + 674\text{N} \sin(-28^\circ)\hat{j}$$

$$\vec{B}: 598\text{N} \cos(48^\circ)\hat{i} + 598\text{N} \sin(48^\circ)\hat{j}$$

$$\text{in } x: 674\text{N} \cos(-28^\circ) + 598\text{N} \cos(48^\circ) = 995 \text{ N in } x$$

$$\text{in } y: 674\text{N} \sin(-28^\circ) + 598\text{N} \sin(48^\circ) = 128 \text{ N in } y$$