

$$|\vec{s}_x| = (-250)\left(\frac{3}{5}\right)$$

$$\boxed{\vec{s}_x = -150 \text{ lbs } \hat{i}}$$

For \vec{s}_y :-

$$|\vec{s}_y| = 250 \sin \theta$$

$$|\vec{s}_y| = 250 \left(\frac{4}{5}\right)$$

$$|\vec{s}_y| = 200 \left(\frac{4}{5}\right)$$

$$\boxed{\vec{s}_y = 200 \text{ lbs } \hat{j}}$$

— * — * —

for \vec{R}

Suppose

$$\vec{R} = \vec{P} + \vec{S} + \vec{F}$$

$$\vec{P} = 60\hat{i} + 25\hat{j}$$

$$\vec{F} = -64\hat{i} + 48\hat{j}$$

$$\vec{S} = 60\hat{i} + 200\hat{j}$$

$$\underline{\vec{R} = -154\hat{i} + 273\hat{j}}$$

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