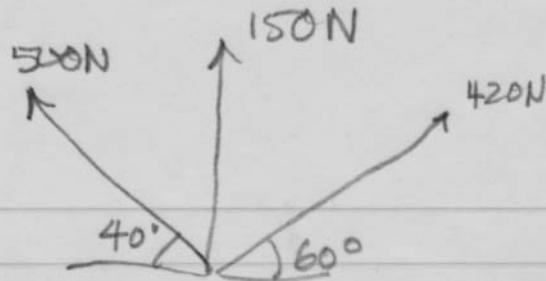


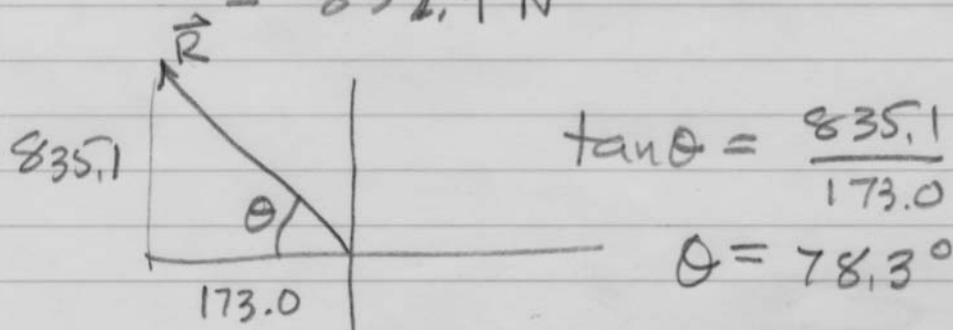
3-35



$$R_x = 420 \cos 60^\circ + 0 - 500 \cos 40^\circ \\ = -173.0$$

$$R_y = 500 \sin 40^\circ + 150 + 420 \sin 60^\circ \\ = 835.1$$

$$R = \sqrt{173.0^2 + 835.1^2} \\ = 852.9 \text{ N}$$



$$\begin{array}{r} 180 \\ - 78.3 \\ \hline 101.7 \end{array}$$

$$\boxed{\vec{R} = 853 \text{ N } \angle 101.7^\circ}$$