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2/21 Using the coordinates of the problem figure:

$$R_{x} = \Sigma F_{x} = 200 \cos 35^{\circ} - 150 \sin 30^{\circ}$$
 $= 88.8 \text{ N}$
 $R_{y} = \Sigma F_{y} = 200 \sin 35^{\circ} + 150 \cos 30^{\circ}$
 $= 245 \text{ N}$
 $\therefore R = 88.8 \text{ i} + 245 \text{ j} \text{ N}$

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