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Determine the magnitude of the resultant force  $R = F_1 + F_2$  and its direction measured counter-clockwise from the positive  $x$  axis.

SOLUTION:  
 $F_R = 2(225)^2 + (275)^2 - 2(225)(275)\cos(75^\circ) = 912.2 = 912 \text{ N}$  Ans.  
 $\alpha = 75^\circ - 45^\circ = 30^\circ$  Ans.  
 $\theta = 30^\circ - 45^\circ = 37.50^\circ = 38^\circ$  Ans.

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