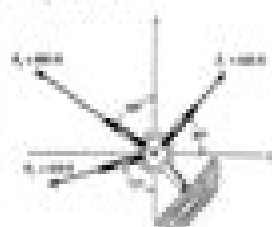


83. Determine the magnitude of the resultant force $R_3 = R_1 + R_2$ acting from the standard conventions with the positive x axis.



$$R_3 = \sqrt{(100)^2 + (100)^2 - 2(100)(100)\cos(135^\circ)} = 141.4 \text{ N} \quad \text{Ans}$$

$$\frac{R_3}{100} = \frac{100}{100}$$

$$\theta = 135^\circ$$

$$\theta = 135^\circ + 45^\circ = 180^\circ \quad \text{Ans}$$



84. Determine the magnitude of the resultant force $R_3 = R_1 + R_2$ acting from the standard conventions with the positive x axis.



Parallelogram Law: The parallelogram of addition is shown in Fig. 84(a).

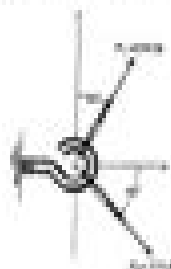
Triangle Rule: Using the triangle rule, where

$$R_3 = \sqrt{(100)^2 + (100)^2 - 2(100)(100)\cos(90^\circ)} = 141.4 \text{ N} \quad \text{Ans}$$

$$R_3 = \sqrt{(100)^2 + (100)^2 - 2(100)(100)\cos(90^\circ)} = 141.4 \text{ N} \quad \text{Ans}$$



85. Determine the magnitude of the resultant force $R_3 = R_1 + R_2$ acting from the standard conventions with the positive x axis.



$$R_3 = \sqrt{(100)^2 + (100)^2 - 2(100)(100)\cos(135^\circ)} = 141.4 \text{ N} \quad \text{Ans}$$

$$\frac{R_3}{100} = \frac{100}{100}$$

$$\theta = 135^\circ$$

$$\theta = 135^\circ + 45^\circ = 180^\circ \quad \text{Ans}$$



86. Determine the magnitude of the resultant force $R_3 = R_1 + R_2$ acting from the standard conventions with the positive x axis.



$$R_3 = \sqrt{(100)^2 + (100)^2 - 2(100)(100)\cos(135^\circ)} = 141.4 \text{ N} \quad \text{Ans}$$

$$\frac{R_3}{100} = \frac{100}{100}$$

$$\theta = 135^\circ$$

$$\theta = 135^\circ + 45^\circ = 180^\circ \quad \text{Ans}$$



87. Resolve the force R_3 into components acting along the x and y axis and determine the magnitude of the components.



$$\frac{R_3}{100} = \frac{100}{100}$$

$$R_3 = 100 \text{ N} \quad \text{Ans}$$

$$\frac{R_3}{100} = \frac{100}{100}$$

$$R_3 = 100 \text{ N} \quad \text{Ans}$$



88. Resolve the force R_3 into components acting along the x and y axis and determine the magnitude of the components.

$$\frac{R_3}{100} = \frac{100}{100}$$

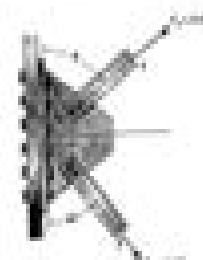
$$R_3 = 100 \text{ N} \quad \text{Ans}$$

$$\frac{R_3}{100} = \frac{100}{100}$$

$$R_3 = 100 \text{ N} \quad \text{Ans}$$



89. The plate is subjected to the two forces P and Q as shown. If $\theta = 45^\circ$, determine the magnitude of the resultant of these two forces and its direction measured from the horizontal.



Parallelogram Law: The parallelogram of addition is shown in Fig. 89.

Triangle Rule: Using the triangle rule, where

$$R_3 = \sqrt{(100)^2 + (100)^2 - 2(100)(100)\cos(90^\circ)} = 141.4 \text{ N} \quad \text{Ans}$$

The angle θ is determined using the cosine rule, where

$$\frac{R_3}{100} = \frac{100}{100}$$

$$\theta = 135^\circ$$

$$\theta = 135^\circ$$

The direction θ of R_3 measured from the x axis is

$$\theta = 135^\circ + 45^\circ = 180^\circ \quad \text{Ans}$$



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