

The vector A (see Fig. 1-1) can be reconstructed from the components $a_x = 18.4$ and $a_y = 13.8$.

$$A = \sqrt{18.4^2 + 13.8^2} = 23 \quad \text{and} \quad \theta = \tan^{-1} \frac{13.8}{18.4} = 37^\circ$$

1-1 Diagram the vector $C = 47\angle 193^\circ$ and write the components.

Solution: The components are $c_x = 47 \cos 193^\circ = -45.8$ and $c_y = 47 \sin 193^\circ = -10.6$.



Fig. 1-3

Taking the sine or cosine of the 193° angle will produce the appropriate negative numbers, but drawing a figure and using the principle angle is a better procedure. Less mistakes are made from figures than from the readout of calculators. When the vector and its components are drawn on the coordinate system there can be no mistake that 45.8 and 10.6 are both negative.

Unit Vectors in Two Dimensions

The use of unit vectors simplifies the mathematical operations on vectors. In two dimensions **unit vectors** are vectors of unit value directed in the $+x$ and $+y$ directions.



Fig. 1-4

The vector A (Fig. 1-1) would be written as $A = 18.4i + 13.8j$ and C (problem 1-1) would be written as $C = -45.8i - 10.6j$

1-2 Add the vectors A and C .

Solution: The addition of A and C is now accomplished by adding the components

$$S = A + C = -27.4i + 3.2j$$



1-3 Subtract C from A .

Solution: $T = A - C = 64.2i + 24.4j$

3 000 Solved Problems In Physics

Elliott Mendelson



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