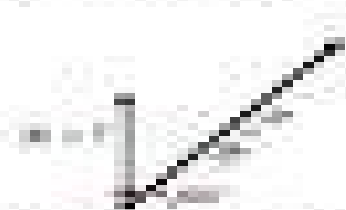


Triangle Connections

Complete each chart and figure to solve the vector problems. Answer the questions that follow.

1.1)

vector	magnitude	direction	components
$\vec{a}$	7	40°	$\vec{a} = 5.37\hat{i} + 4.59\hat{j}$
$\vec{b}$	12	30°	$\vec{b} = 10.39\hat{i} + 5.94\hat{j}$
$\vec{c} = \vec{a} + \vec{b}$	17.439	34.1°	$\vec{c} = 15.76\hat{i} + 10.53\hat{j}$



1.2) The three vectors in the figure above form a triangle. Use these measurements to determine the measures of the angles in the triangle.

100° degrees, 150° degrees, 30° degrees, 90° degrees, 120.2° degrees, 1200.2° degrees, and 1000° degrees, 120° degrees, 1200° degrees.

1.3) The magnitude of the vector $\vec{a} = 7\hat{i} + 3\hat{j}$ can be calculated as the magnitude length(s) in the triangle drawn below. What the Law of Sines or the Law of Cosines to find $\vec{a}$. Recall that $\vec{a} = 7\hat{i} + 3\hat{j}$.

$a^2 = 7^2 + 3^2 = 58 \Rightarrow a = \sqrt{58} \Rightarrow 7.6158$ degrees 90° degrees, 120° degrees, 1200° degrees.



1.4) In the figure, vector $\vec{a}$ has a magnitude of 1.50° and a magnitude of 1.2 units, and vector $\vec{b}$ has a magnitude of 1.50° and a magnitude of 1.2 units. Diagrams show the angle between the two vectors would be 120° .

Recalling the angle in the triangle calculated, the resultant angle is 120° degrees, 90° degrees, 120° degrees.



1.5) The magnitude of the vector $\vec{a} = 7\hat{i} + 3\hat{j}$ can be calculated as the length of the diagonal(s) in the parallelogram (triangle) the figure(s). Use the value and form of trigonometry to find $\vec{a}$. 100° degrees, 150° degrees, 30° degrees, 90° degrees, 120.2° degrees, 1200.2° degrees.

$a^2 = 7^2 + 3^2 = 58 \Rightarrow a = \sqrt{58} \Rightarrow 7.6158$ degrees 90° degrees, 120° degrees, 1200° degrees.

1.6)

vector	magnitude	direction	components
$\vec{a}$	12	135°	$\vec{a} = 8.49\hat{i} + 8.49\hat{j}$
$\vec{b}$	4	45°	$\vec{b} = 2.83\hat{i} + 2.83\hat{j}$
$\vec{c} = \vec{a} + \vec{b}$	14.742	119°	$\vec{c} = 11.32\hat{i} + 11.32\hat{j}$

Recall previously your derived short-cutting vectors.

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