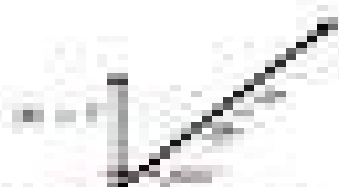


Triangle Connections

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°	$\vec{a} = 5.37\hat{i} + 4.59\hat{j}$
$\vec{b}$	14	100°	$\vec{b} = -11.11\hat{i} + 4.94\hat{j}$
$\vec{c} = \vec{a} + \vec{b}$	16.439	94.1°	$\vec{c} = 4.26\hat{i} + 9.53\hat{j}$



1.2) The three vectors in the figure above form a triangle. Use these magnitudes to determine the measure of the angle in the triangle.

100 degrees $+ 100$ degrees $+ 100$ degrees $= 300$ degrees $+ 100.2$ degrees $= 400.2$ degrees $- 100.2$ degrees $= 300$ degrees $- 100$ degrees $= 200$ degrees $+ 100.2$ degrees $= 300.2$ degrees

1.3) The magnitude of the vector $\vec{a} = 10$ can be represented as the horizontal length(s) in the triangle drawn below. What the Law of Sines or the Law of Cosines to find $\vec{c}$.
Recall that $\vec{a} + \vec{b} = \vec{c}$.

$$\vec{a}^2 + \vec{b}^2 - 2\vec{a}\vec{b}\cos(\theta) = \vec{c}^2 \quad 10^2 + 10^2 - 2(10)(10)\cos(60^\circ) = \vec{c}^2 \quad \text{take square root}$$

$$\vec{c} = 8.718 \quad \text{is the sum of the two}$$



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 1.00 and a magnitude of 0.5 units. Diagrams show the angle between the two vectors could be 170° .

Recall, we can use the cosine rule to find the resultant. The resultant length is 1.20 magnitude $+ 0.50$ magnitude $= 1.70$ magnitude.



1.5) The magnitude of the vector $\vec{a} = 10$ can be represented as the length of the diagonal(s) in the parallelogram drawn in the figure. Use the value and form of trigonometry to find $\vec{c}$.

$$100 \text{ degrees} + 70 \text{ degrees} = 170 \text{ degrees} + 100 \text{ degrees}$$

$$\vec{a}^2 + \vec{b}^2 - 2\vec{a}\vec{b}\cos(\theta) = \vec{c}^2 \quad 10^2 + 10^2 - 2(10)(10)\cos(170^\circ) = \vec{c}^2 \quad \text{take square root}$$

$$\vec{c} = 16.746$$

1.6)

vector	magnitude	direction	components
$\vec{a}$	12	135°	$\vec{a} = -8.49\hat{i} + 8.49\hat{j}$
$\vec{b}$	4	40°	$\vec{b} = 3.13\hat{i} + 2.57\hat{j}$
$\vec{c} = \vec{a} + \vec{b}$	14.746	119.1°	$\vec{c} = -5.36\hat{i} + 11.06\hat{j}$

Recall we should use the cosine rule to find the resultant.

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Chao Zhang



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