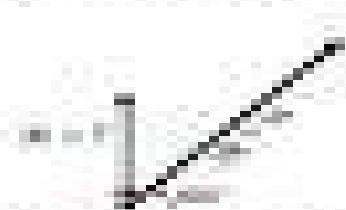


Triangle Connections

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°	$\vec{a} = 5.37\hat{i} + 4.49\hat{j}$
\vec{b}	14	100°	$\vec{b} = -11.12\hat{i} + 4.94\hat{j}$
$\vec{c} = \vec{a} + \vec{b}$	16.439	94.1°	$\vec{c} = 4.25\hat{i} + 9.43\hat{j}$

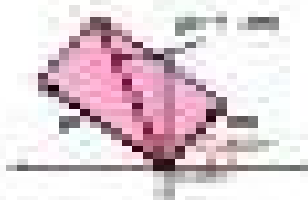


1.2) The three vectors in the figure above form a triangle. Use these magnitudes to determine the measure of the angle in the triangle.

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 measured as the horizontal length(s) in the triangle shown below. What the Law of Sines or the Law of Cosines to find \vec{a} . Recall that $\vec{a} = 10\hat{i} + 10\hat{j}$.

$$a^2 = 10^2 + 10^2 - 2(10)(10)\cos(90\text{ degrees}) = 100 \text{ so } a = 10.000 \text{ is the correct value.}$$



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 1.0 units. Diagrams show the angle between the two vectors could be 170° .

Recalling the angle is the relative rotation the reference angles 170 degrees $+ 90$ degrees $= 260$ degrees



1.5) The magnitude of the vector $\vec{a} = 10$ can be measured as the length of the diagonal(s) in the parallelogram shown in the figure. Use the value and form of \vec{a} to determine \vec{a} .

$$a^2 = 10^2 + 10^2 - 2(10)(10)\cos(90\text{ degrees}) = 100 \text{ so } a = 10.000$$

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°	$\vec{c} = -5.66\hat{i} + 11.32\hat{j}$

Recall you should always check your answers.

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Sheldon Axler



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