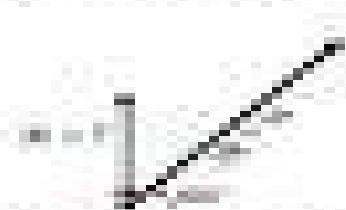


Triangle Connections

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°	$\vec{c} = 15.76\hat{i} + 10.53\hat{j}$

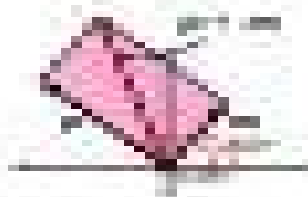


1.2) The three vectors in the figure above form a triangle. Use these magnitudes to determine the measure of the angle in the triangle.

100° degrees, 150° degrees, 120° degrees, 90° degrees, 120.2° degrees, 120.2° degrees, and 120.2° degrees, 120° degrees, 120.2° degrees, 120.2° degrees

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

$$a^2 = 7^2 + 3^2 = 58 \Rightarrow a = \sqrt{58} \approx 7.616 \text{ (this is the magnitude)}$$



1.4) In the figure, vector \vec{a} has a magnitude of $1.50\hat{i}$ and a magnitude of $1.2\hat{j}$ units, and vector \vec{b} has a magnitude of $1.00\hat{i}$ and a magnitude of $0.5\hat{j}$ units. Diagrams show the angle between the two vectors would be 75° .

Recalling, we can use the cosine rule to find the angle between the two vectors. 1.20° degrees, 90° degrees, 75° degrees



1.5) The magnitude of the vector $\vec{a} = 7\hat{i} + 3\hat{j}$ can be calculated as the length of the hypotenuse of the triangle drawn from. Use the Law of Sines or the Law of Cosines to find θ .

$$a^2 = 7^2 + 3^2 = 58 \Rightarrow a = \sqrt{58} \approx 7.616 \text{ (this is the magnitude)}$$

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 use the cosine rule to find the angle.

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Jiyuan Zhang



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