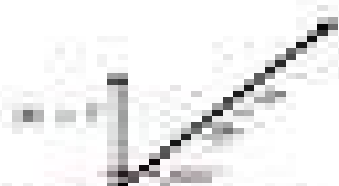


Triangle Connections

Complete each chart about your figure to obtain the vector addition. Answer the questions that follow.

1.1)

vector	magnitude	direction	components
$\vec{a}$	7	40°	$\vec{a} = 5.3 + j4.2$
$\vec{b}$	12	30°	$\vec{b} = 10.4 + j6.0$
$\vec{a} + \vec{b}$	18.4	34.1°	$\vec{a} + \vec{b} = 15.7 + j10.2$



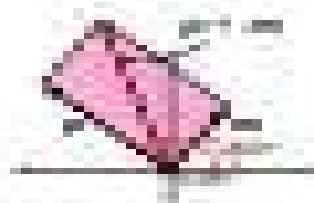
1.2) The three vectors in the figure above form a triangle. Use these dimensions to determine the measures of the angles in the triangle.

$180^\circ - 40^\circ - 30^\circ = 110^\circ$
 $180^\circ - 110^\circ = 70^\circ$
 $180^\circ - 70^\circ = 110^\circ$

1.3) The magnitude of the vector sum ($\vec{a} + \vec{b}$) can be determined as the resultant length (c) in the triangle drawn above. Use the Law of Cosine or the Law of Sines to find c .
 Recall that $a^2 = b^2 + c^2 - 2bc \cos A$.

$$7^2 + 12^2 - 2(7)(12) \cos 110^\circ = c^2$$

$$c = 18.4 \text{ in the resultant vector}$$



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 70° .

Recalling our angle to the triangle calculated, the resultant length:
 $1.20 + 1.00 = 2.20$



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

$$1.5^2 + 1.2^2 - 2(1.5)(1.2) \cos 70^\circ = c^2$$

$$c = 2.20$$

1.6)

vector	magnitude	direction	components
$\vec{a}$	12	135°	$\vec{a} = -8.49 + j8.49$
$\vec{b}$	4	45°	$\vec{b} = 2.83 + j2.83$
$\vec{a} + \vec{b}$	14.7	119°	$\vec{a} + \vec{b} = -5.66 + j11.32$

Recall previously your derived short-cutting vectors.

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