

## 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	$40^\circ$	$\vec{a} = 5.37\hat{i} + 4.59\hat{j}$
$\vec{b}$	14	$100^\circ$	$\vec{b} = -11.11\hat{i} + 4.94\hat{j}$
$\vec{c} = \vec{a} + \vec{b}$	16.439	$94.1^\circ$	$\vec{c} = 3.26\hat{i} + 9.53\hat{j}$



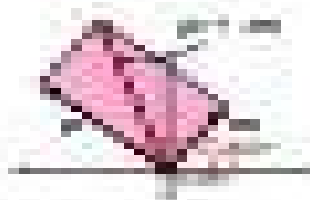
1.2) The three vectors in the figure above form a triangle. Use these magnitudes to determine the measure of the angle in the triangle.

$100$  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 measured as the horizontal length of the triangle drawn from. Use the Law of Sines or the Law of Cosines to find  $\vec{a}$ .  
Recall that  $\vec{a} = 10\hat{i} + 10\hat{j}$ .

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

$$a = 10.000 \text{ is the vector value}$$



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  $0.5$  units. Diagrams show the angle between the two vectors could be  $170^\circ$ .

Recalling the angle to the relative positions the addition 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 of the rectangle drawn from the origin. Use the Law of Sines or the Law of Cosines to find  $\vec{a}$ .

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

$$a = 14.142$$

1.6)

vector	magnitude	direction	components
$\vec{a}$	12	$135^\circ$	$\vec{a} = -8.49\hat{i} + 8.49\hat{j}$
$\vec{b}$	4	$45^\circ$	$\vec{b} = 2.83\hat{i} + 2.83\hat{j}$
$\vec{c} = \vec{a} + \vec{b}$	14.142	$135^\circ$	$\vec{c} = -5.66\hat{i} + 11.31\hat{j}$

Recall you should always check your answers.

# Tescce Hs Mathematics Unit 06 Lesson 01

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