

VECTORS

P (3,5)

Q (6,8)

R (-2,-3)

S (-5,1)

Get a piece of graph paper and draw each of these. Fill in this table to get familiar with the various forms.

	Magnitude, direction	Component form	Unit Vector form	Direction angle form
$\vec{u} = \overrightarrow{PQ}$ $\vec{v} = \overrightarrow{RS}$	$\ \vec{v}\ $ θ	$\langle v_1, v_2 \rangle$	$a\vec{i} + b\vec{j}$	$\ \vec{v}\ \langle \cos\theta, \sin\theta \rangle$
$\frac{1}{2}\vec{u}$				
$2\vec{v}$				
$\vec{u} + \vec{v}$				
$2\vec{u} - \vec{v}$				