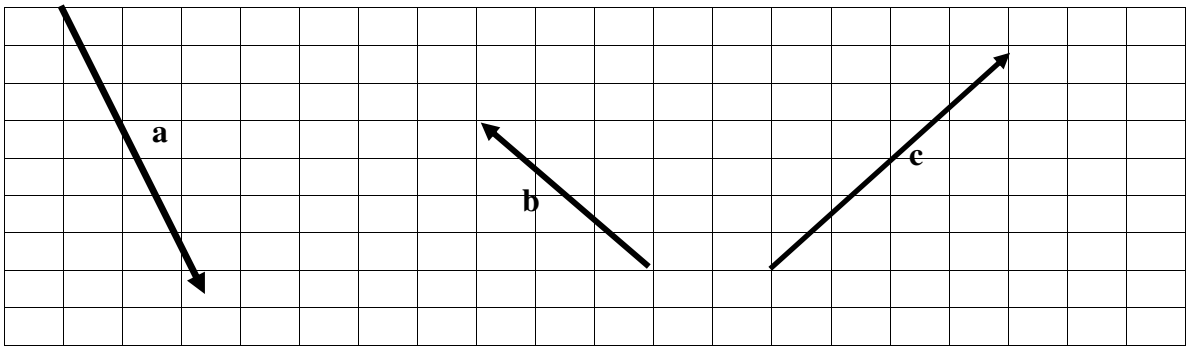
Name _____ Date _____ Period _____

Vector Operation Worksheet



1. Measure the magnitude and direction of each of the vectors shown above.

a	
b	
c	

2. Carefully draw and measure the components of each of the vectors shown above. Document the component's measurements in the table.

	x	y
a		
b		
c		

3. Resolve each of the vectors into their components (x and y) mathematically. *Show your work.*

	x	y
a		
b		
c		

4. Find the vector sum **R** of **a+b+c.** *Show your work.*

5. A ball is thrown with an initial velocity of 25 m/s [E 25^{o} Up]. Find the horizontal and vertical components of this velocity.

6. An airplane is flying with a velocity of 100 km/h north in a wind that is blowing 30 km/h northeast. Determine the ground velocity of this airplane.