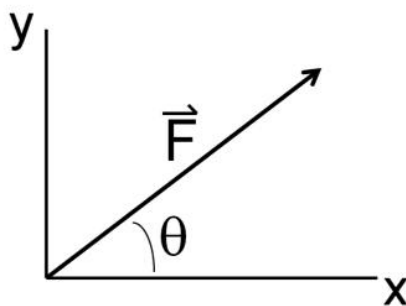


Name: \_\_\_\_\_

Composition and Resolution of Vectors Pre-Lab  
(Due at the beginning of lab period.)

- 1) (a) Write equations for the  $x$  and  $y$  components of the vector  $\vec{F}$  in the figure in terms of the angle  $\theta$  and the magnitude of the vector  $\vec{F}$ .

- (b) Draw the components on the provided figure or reproduce this figure on the paper you plan to hand-in.



- 2) Now draw a vector which exactly cancels out the vector in question (1). Make sure to properly indicate its magnitude and direction.