

Problem Solving Vectors

Challenge Problem Solutions

Problem 1: Vector Addition

1.1 Consider the two vectors shown in the figure below. The magnitude of $|\vec{A}| = 2.88$ and the vector \vec{A} makes an angle 33.7° with the positive x -axis. The magnitude of $|\vec{B}| = 3.44$ and the vector \vec{B} makes an angle 35.5° with the positive x -axis pointing down to the right as shown in the figure below. Find the x and y components of the vectors \vec{A} and \vec{B} .

