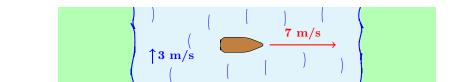
Ex #1 You hike 20 meters east and then 40 meters north. What is your displacement (magnitude and direction)?



 \mathbf{Ex} #2 You row east across a river at a speed of 7 m/s. The river flows north at a speed of 3 m/s. From the perspective of someone standing on the shore, what is your velocity (magnitude and direction)?



Ex #3 A ball is thrown with an initial resultant velocity of 12.5 m/s at angle 53° above horizontal. Calculate the x- and y- components of the ball's initial velocity.



 \mathbf{Ex} #4 An airplane comes in for a landing at a speed of 67 m/s. Its angle is 15 degrees below horizontal. Calculate the x- and y- components of the airplane's velocity.

