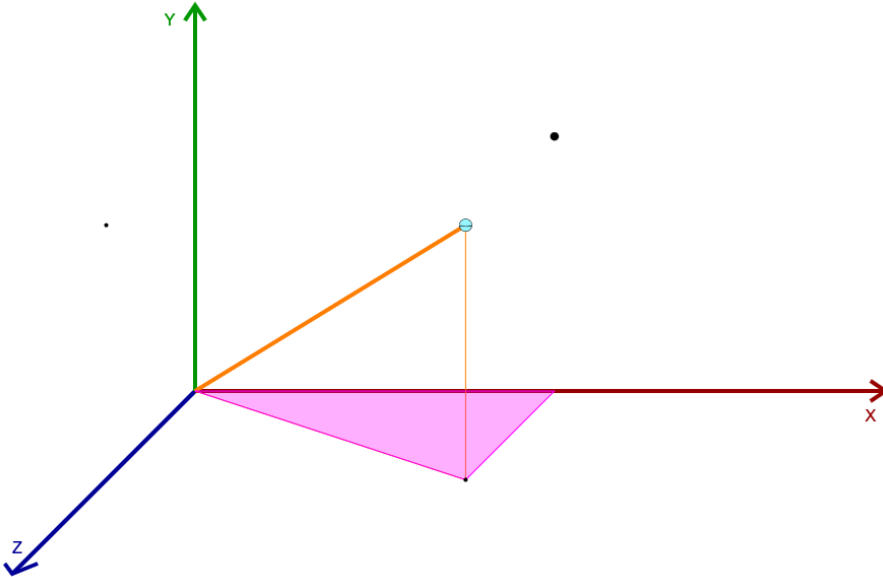


# Coordinates of a 3D Vector

Step 1: Write the position vector that you are given with a magnitude and two angles. Show in the picture below where the magnitude and the two angles belong



Step 2: The first triangle that you want to deal with is the one above the x-z plane. Find the two legs of that triangle.

Step 3: The next triangle you will deal with is the one on the x-z plane. Find the two legs of that triangle

Step 4: You can now write out the vector in terms of x, y, and z or i, j, and k. Enter your answers into the program to verify that you did everything correctly