

ES202 - Assignment

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PLACHOLDER

Contents

| | | |
|---|----|---|
| 1 | Q1 | 3 |
|---|----|---|

1 Q1

Question: An Airplane is monitored at the location illustrated below with respect to the airport, find the directional angles of the plane.

Solution:

We know that the coordinates of the plane is 5 units *South*, 7 units *East*, and 4 units *Up*.

Let *South*, *East*, and *Up* be represented by the Cartesian Coordinates x , y , and z , respectively.

Let α , β , and γ be the angles between the plane and the axes *South*, *East*, and *Up*, respectively.

$$\alpha = \cos^{-1} \quad (1)$$