

SP 2-GG

For the points $P_1(2, 20^\circ, 3)$ and $P_2(4, 60^\circ, 1)$, find

- a) directed distance $\mathbf{R}_{12}$ directed from P_1 to P_2 . (Note that since a directed distance is a discrete vector, it would make the most sense to express $\mathbf{R}_{12}$ in Cartesian coordinates, since its base vectors are independent of position.).
- b) the distance from P_1 to P_2 .
- c) A unit vector directed from P_1 to P_2 .