

# SOLUTIONS MANUAL FOR SPACETIME AND GEOMETRY SOLUTIONS

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## Solutions Manual to accompany AN INTRODUCTION TO ...

To avoid complications, the sketch shows the geometry of a generic vector  $R_i$  ( $i = 1$  or  $2$ ) making angles  $\theta_i$  and  $\phi_i$ . The magnitude of  $R_i$  is  $R$ , so  $R_1 = R_2 = R$ . The coordinates of a point on the surface are  $R_i = R \cos \theta_i \cos \phi_i \hat{i} + R \cos \theta_i \sin \phi_i \hat{j} + R \sin \theta_i \hat{k}$ . The angle between two points can be found using the dot product.  $\theta_{1;2} = \arccos \dots$