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## CP.2.7.5.a, Sauer3

Use multivariate Newton's Method to find the two points in common of the three given spheres in three-dimensional space.

a. Each sphere has radius 1, with centers ( 1, 1, 0 ), ( 1, 0, 1 ), and ( 0, 1, 1 ).

The answers are (1, 1, 1) and  $(\frac{1}{3}, \frac{1}{3}, \frac{1}{3})$ .