

1 Tetrahedron

Using a dot product, find the angle between any two line segments that join the center of a regular tetrahedron to its vertices. *Hint:* Think of the vertices of the tetrahedron as sitting at the vertices of a cube (at coordinates $(0,0,0)$, $(1,1,0)$, $(1,0,1)$ and $(0,1,1)$ —you may need to build a model and play with it to see how this works!)