

## Two Spheres

Given are two spheres: one of them is fixed and the other one can be moved along the  $x$ -axis by changing the parameter  $a$ . The equation of the sphere is given by:

$$(x - a)^2 + y^2 + z^2 - 1 = 0.$$

The centre of the sphere is  $(a, 0, 0)$ . By changing  $a$  the centre moves and thus the sphere. Try adding a third sphere that moves into another direction.