Let K be the Euclidean circle with equation

$$x^2 + y^2 - \frac{1}{2}y - \frac{3}{16} = 0$$

lies entirely in the unit disc D.

 $K = \{ z : |z - \alpha| = r \}.$ Where α is a complex number, r is a real number and z= x+iy. Hence show that K

(b) Find the non-Euclidean centre and radius of K

[10]