Question 2



(b) The diagram shows part of the circular end of a running track with three running lanes shown. The centre of each of the circular boundaries of the lanes is at *O*.

Kate runs in the middle of lane 1, from *A* to *B* as shown.

Helen runs in the middle of lane 2, from C to D as shown.

Helen runs 3 m further than Kate.

 $| \angle AOB | = | \angle COD | = \theta$ radians.

If each lane is 1.2 m wide, find θ .



Project Maths, Phase 3 Paper 2 – Higher Level