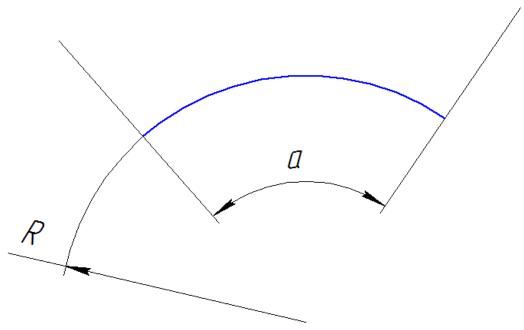
## Task:

Calculate the angular displacement of a circling aircraft which travels 3 Km along the arc of a circle with  $R=10 \ Km$ 

## **Solution:**



$$l = \alpha R$$

$$\alpha = \frac{l}{R} = \frac{3 \text{ km}}{10 \text{ km}} = 0.3 \text{ radians} = 0.3 \cdot \frac{180^{\circ}}{\pi} = 17.189^{\circ}$$

## **Answer:**

$$\alpha = 17.189^{\circ}$$