Assignment 08

Due on 2021-11-14, 53:00 IST.

1. A cabin window is hinged at its lower edge, which is horizontal to the horizon. A person in a plane sees two points that are 60° apart on the horizon. The person moves to the window and sees that 20° of the angle between the two points is covered by the window. Draw a diagram to show the situation.

2. A person is sitting on a Ferris wheel at a height of 100 m above the ground. The Ferris wheel revolves at a constant speed of 0.5 rad/s. The person takes a picture of the circular city skyline with the Ferris wheel in the middle. How many radians of the skyline would be visible in the picture? Provide a diagram to illustrate the situation.

3. A person is sitting on a Ferris wheel at a height of 100 m above the ground. The Ferris wheel revolves at a constant speed of 0.5 rad/s. The person takes a picture of the circular city skyline with the Ferris wheel in the middle. How many radians of the skyline would be visible in the picture? Provide a diagram to illustrate the situation.

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