

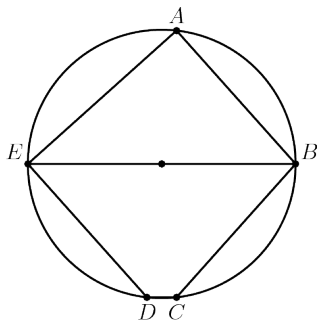


Indian Institute of Technology Hyderabad
Future Wireless Communication
Entrance Exam

Duration: 30 min

Date: Jun 23, 2023

1. \overline{AB} is parallel to \overline{ED} , and the diameter \overline{EB} is parallel to \overline{DC} . And $\frac{\angle AEB}{\angle ABE} = \frac{4}{5}$, then find $\angle BCD$.



2. If the ratio of the sum of the first n terms of two APs is $\frac{5n+31}{7n+17}$, then find the ratio of their 13^{th} terms.

Best Wishes