

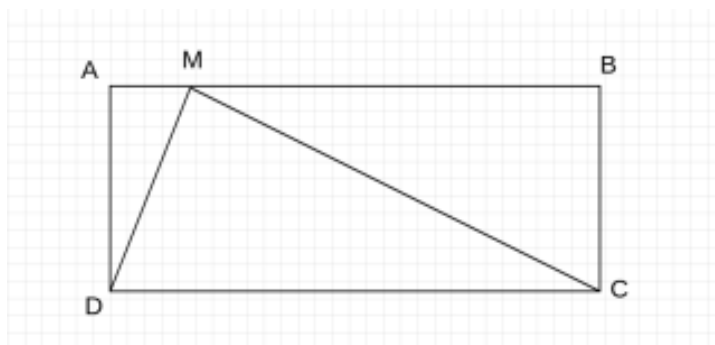


Indian Institute of Technology Hyderabad  
Future Wireless Communication  
**Entrance Exam**

Duration: 30 min

Date: July 03, 2023

1. Rectangle ABCD has  $AB = 6\text{cm}$  and  $BC = 3\text{cm}$ . Point M is chosen on side AB so that  $\angle AMD = \angle CMD$ . What is the degree measure of  $\angle AMD$ ?



2. The sum of the  $2^{\text{nd}}$  term and the  $7^{\text{th}}$  term of an A.P is 30. If its  $15^{\text{th}}$  term is 1 less than twice of its  $8^{\text{th}}$  term, find the A.P.

**Best Wishes**