

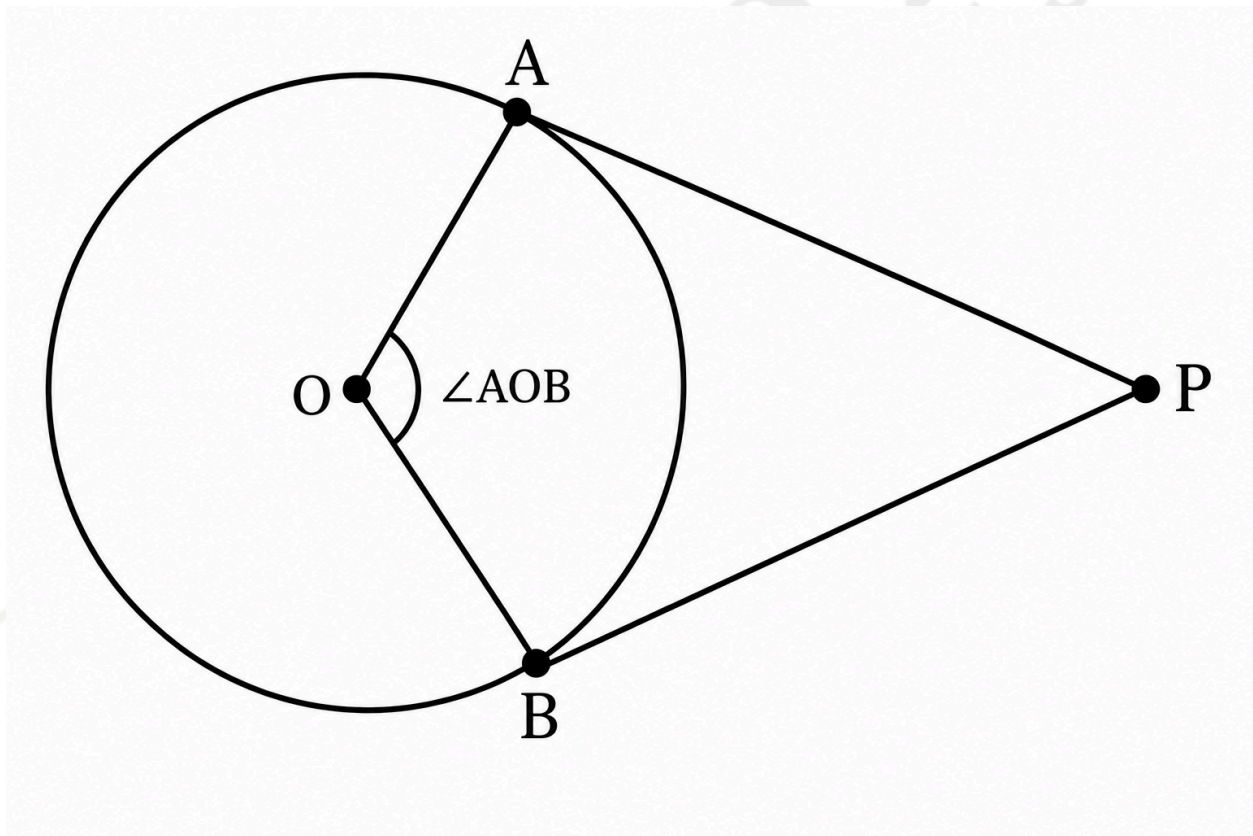
## Class 10 Mathematics - Circles

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Medium Worksheet 3

Diagram for Questions 1–4



### Questions

1. If  $\angle AOB = 100^\circ$ , find  $\angle APB$ .
2. If  $\angle AOB = 120^\circ$ , find  $\angle APB$ .

3. If  $\angle AOB = 90^\circ$ , find  $\angle APB$ .
4. State the relationship between the angle between two tangents and the angle subtended at the centre.
5. If PA and PB are tangents, what is the relation between PA and PB?
6. Name the points of contact.

**Answer Key**

1.  $80^\circ$
2.  $60^\circ$
3.  $90^\circ$
4. Angle between tangents =  $180^\circ -$  angle subtended at the centre.
5. PA = PB
6. A and B