

DAILY PRACTICE PROBLEMS

DPP No. 1

(4 marks, 5 min.)

Min.

30]

M.M.,

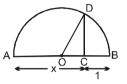
[24,

## **Topic : Fundamentals of Mathematics**

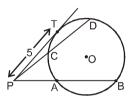
## Type of Questions

Subjective Questions (no negative marking) Q.1 to Q.6

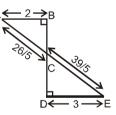
**1.** Find the value of CD in terms of x, in the adjoining figure, where O is the centre of semicircle.



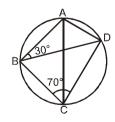
2. In the given figure (circle), PT = 5, PD = 7 and PA = 2, then the value of PB – PC = ?



**3.** In the adjoining figure find the value of BD.



**4.** Let ABCD is a cyclic quadrilateral. Then, find the  $\angle$  ADB.



- 5. Plot the straight lines on the co-ordinate axes. (i) y = x (ii) y = -x (iii) y = x + 1
- 6. Convert into 'perfect square + some constant'. (i)  $x^2 + x$  (ii)  $x^2 + 3x$

## Answers Key

**1.** 
$$\sqrt{x}$$
 **2.**  $\frac{125}{14}$  **3.** 12 **4.** 40°