



FWC  
Entrance

May 24, 2023, Duration: 30  
min

1. In Fig 1.1, PQ is a chord of length  $8\text{ cm}$  of a circle of radius  $5\text{ cm}$  and centre O. The tangents at P and Q intersect at point T. Find the length of TP.

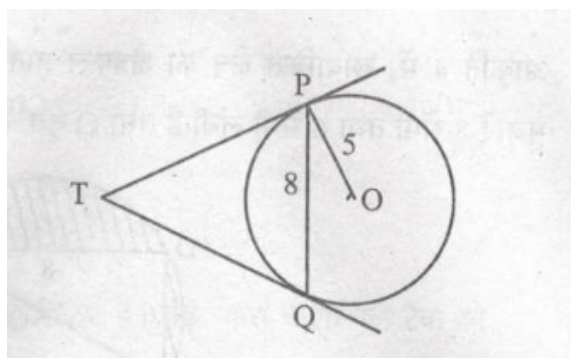


Fig. 1.1

2. How many terms are there in A.P. whose first and fifth terms are  $-14$  and  $2$ , respectively and the last term is  $62$ .