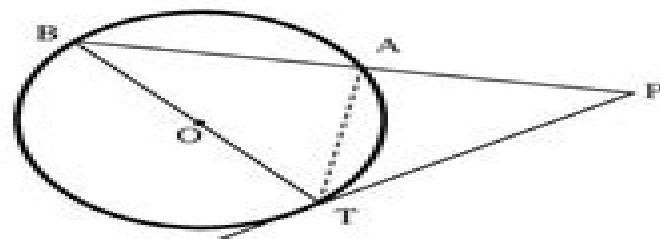


**Question 7**

- (a) In the given figure, PAB is a secant and PT a tangent to the circle with centre O. If  $\angle ATP = 40^\circ$ , PA = 9 cm and AB = 7 cm.



Find:

- (i)  $\angle APT$   
 (ii) length of PT [3]
- (b) The 1<sup>st</sup> and the 8<sup>th</sup> term of a GP are 4 and 512 respectively. Find:  
 (i) the common ratio  
 (ii) the sum of its first 5 terms. [3]
- (c) The mean of the following distribution is 49. Find the missing frequency 'a'.

Class	0 – 20	20 – 40	40 – 60	60 – 80	80 – 100
Frequency	15	20	30	a	10

[4]

**Question 8**

- (a) Prove the following identity  
 $(\sin A + \operatorname{cosec} A)^2 + (\cos A + \sec A)^2 = 5 + \sec^2 A + \operatorname{cosec}^2 A$  [3]
- (b) Find the equation of the perpendicular bisector of line segment joining A(4, 2) and B(-3, -5) [3]
- (c) Using properties of proportion, find  $x : y$  if  

$$\frac{x^3 + 12x}{6x^2 + 8} = \frac{y^3 + 27y}{9y^2 + 27}$$

[4]

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