#### Question 7

(a) In the given figure, PAB is a secant and PT a tangent to the circle with centre O. If ∠ATP = 40°, PA = 9 cm and AB = 7 cm.



Find:

- (i) ∠APT
- (iii) 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:
  - 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 'α'.

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

 $(\sin A + \csc A)^2 + (\cos A + \sec A)^2 = 5 + \sec^2 A \cdot \csc^2 A$ 

[3]

(b) Find the equation of the perpendicular bisector of line segment joining A(4, 2) and B(-3, -5)

25

[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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