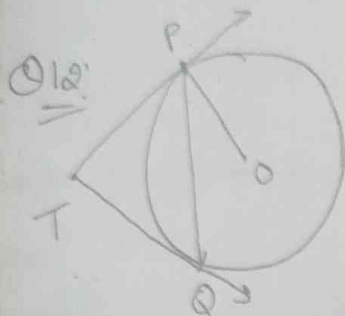


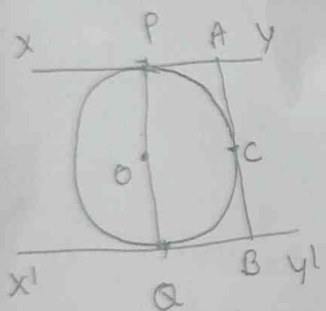
Q.10 Prove that tangents drawn at end of a diameter of a circle are $\parallel$ el. (3)

Q.11 $\rightarrow$ Prove that $\parallel$ gm circumscribing a circle is a rhombus. (3)



Prove that $\angle PTO = 2\angle OPA$ (3)

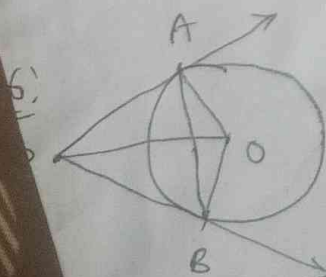
Q.13 ABC is a $\text{isos. } \Delta$ with $AB = AC$, circumscribed about a circle. Prove that BC is bisected at E.
OR



PQ is diameter of circle, $XY \parallel X'Y'$,
prove that $\angle AOB = 90^\circ$. (3)

Q.14:- Prove that opposite sides of a quad. circumscribing a circle subtend supplementary angles at centre of the circle. (3)

Q.15:- Prove that $\perp$ at point of contact to tangent to a circle passes through centre. (3)



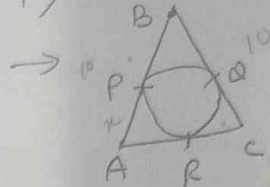
$AB = 9.6\text{cm}$, radius of circle is 6cm .
Find length of PA. (3)

CLASS - 10 N & Army
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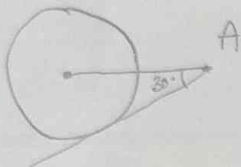
mm-30

MCQS (1X9)

Q1 In given fig. $AB = BC = 10\text{cm}$. If $AC = 7$, then $BP =$ _____
(3.5, 7, 6.5, 5)



Q2 If $\angle A = 30^\circ$, then the value of radius of circle is _____ (3cm, $3\sqrt{3}$, 2, $\sqrt{3}$)



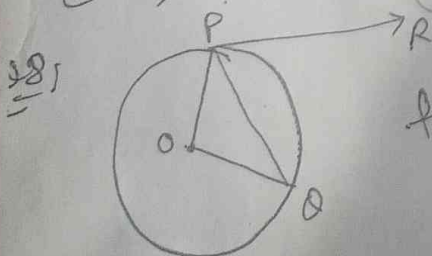
Q3 The length of tangent from a point A at a circle, of radius 3cm, is 4cm. The distance of A from centre of circle is _____. ($\sqrt{7}\text{cm}$, 7, 5, 25)

Q4 PQ is a tangent to a circle with centre O at a point P. If $\triangle OPQ$ is an isos. $\triangle$, then $\angle OQP =$ _____.
(30° , 45° , 60° , 90°)

Q5 If angle b/w two radii of a circle is 130° , the angle b/w tangents at ends of radii is _____.
(90° , 50° , 70° , 40°)

Q6 If PA & PB are tangents to a circle with centre O such that $\angle APB = 50^\circ$, $\angle OAB =$ _____. (25° , 30° , 40° , 50°)

Q7 Two equal circles touch each other externally at C and AB is a common tangent to circles then, $\angle ACB =$ _____.
(60° , 45° , 30° , 90°)



Q8 Find $\angle POQ$. (110° , 100° , 120° , 90°)



Q9 $OP = 2\text{cm}$, $PQ = 6.5\text{cm}$, $RQ = 7.3\text{cm}$, SR