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CLASS – 10

MATHEMATICS

Chapter – 10

CIRCLES

Part – 2

EXERCISE 10.1

Shubham Tiwari

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EXERCISE 10.1

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1. How many tangents can a circle have?

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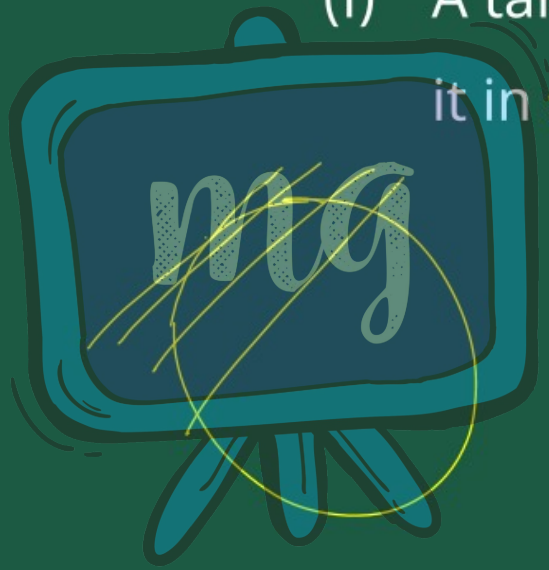
2. Fill in the blanks :

(i) A tangent to a circle intersects it in ..... point (s).



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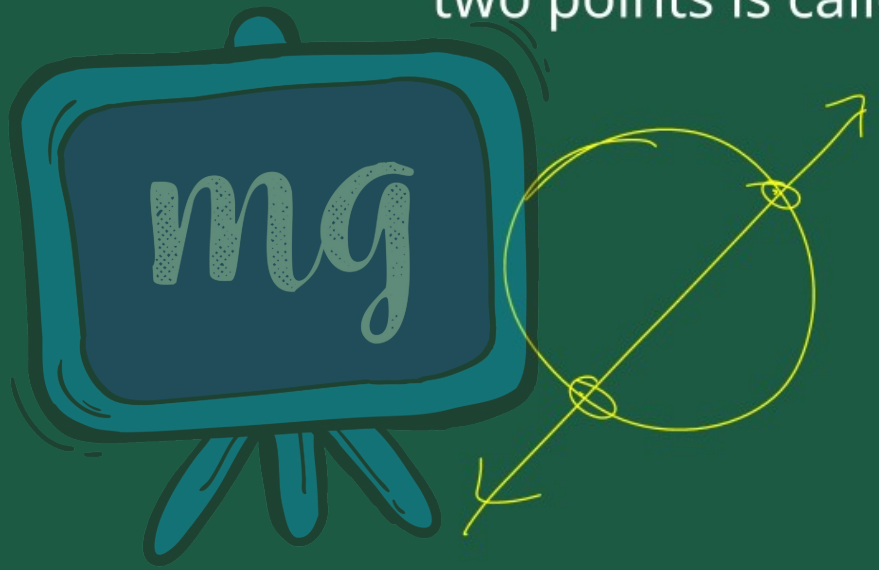
(ii) A line intersecting a circle in two points is called a .Secant.



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(iii) A circle can have ..two.. parallel tangents at the most.

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(iv) The common point of a tangent to a circle and the circle is called ..point of contact..

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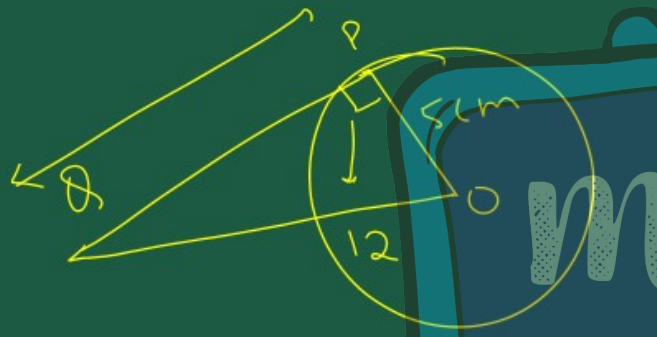
3. A tangent PQ at a point P of a circle of radius 5 cm meets a line through the centre O at a point Q so that OQ = 12 cm. Length PQ is :



$OQ^2 - OP^2 = PQ^2$

$12^2 - 5^2 = PQ^2$

$144 - 25 = PQ^2$

$119 = PQ^2$

$\sqrt{119} = PQ$

(A) 12 cm

(B) 13 cm

(C) 8.5 cm

(D) $\sqrt{119}$ cm

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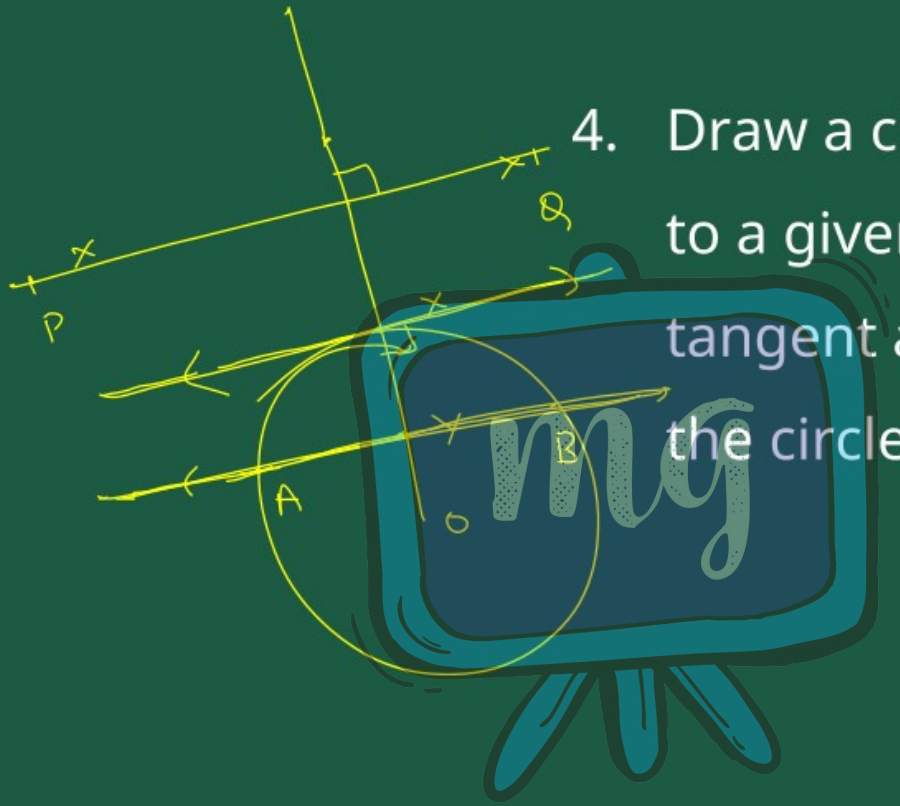

4. Draw a circle and two lines parallel to a given line such that one is a tangent and the other, a secant to the circle.