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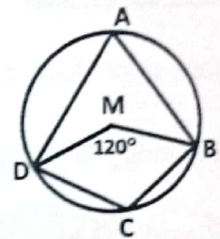
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Answer the following questions:

First question: Choose the correct answer from those given:

- The number of tangents are drawn from a point outside a circle is
{ one or two or an infinite number or three }
- The measure of the central angle is equal to..... the measure of the inscribed angle subtended by the same arc. { twice or three times or four times or half }
- In the opposite figure:**
If $m(\angle BMD) = 120^\circ$, then $m(\angle C) = \dots\dots^\circ$
{ 70 or 120 or 140 or 60 }
- The length of a quarter of a circle =
{ $\frac{1}{2}\pi r$ or 90° or $\frac{1}{4}\pi r$ or 45° }
- A circle of radius length is 9 cm, if the straight line L is distant from its center by 3 cm, then L is
{ tangent to the circle or outside the circle
or intersects the circle in two points or axis of symmetry of the circle }
- M and N are two touching circles internally, the length of two radii are 3 cm and 5 cm respectively then $MN = \dots\dots$ { 3 cm or 5 cm or 8 cm or 2 cm }



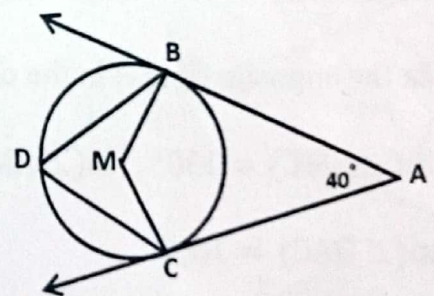
Second Question:

1) **In the opposite figure:**

\overline{AB} and \overline{AC} are two tangents to the circle M at B and C,

$m(\angle A) = 40^\circ$

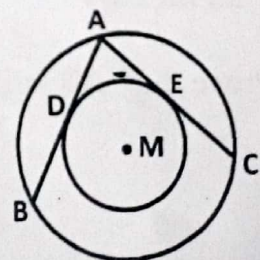
- Prove that: ABMC is cyclic quadrilateral
- Find $m(\angle D)$



2) **In the opposite figure:**

Two concentric circles at M, \overline{AB} , \overline{AC} are two chords in the greater circle and touching the smaller circle at D, E respectively.

Prove that $AB = AC$



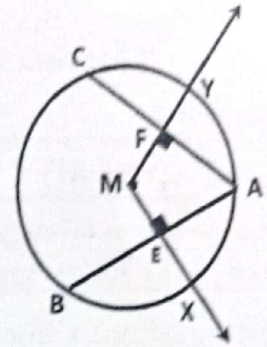
(((بقية الأسئلة في الصفحة الثانية)))

Third Question:

1) In the opposite figure: \overline{AB} and \overline{AC} are two chords in the circle M

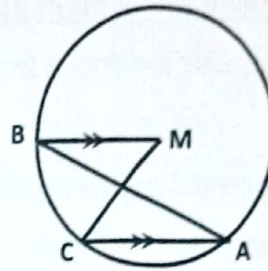
$\overline{MX} \perp \overline{AB}$, and $\overline{MY} \perp \overline{AC}$, $AB = AC$

Prove that: $XE = YF$



2) In the opposite figure: in the circle M $\overline{MB} \parallel \overline{AC}$

prove that: $m(\angle M) = 2m(\angle B)$



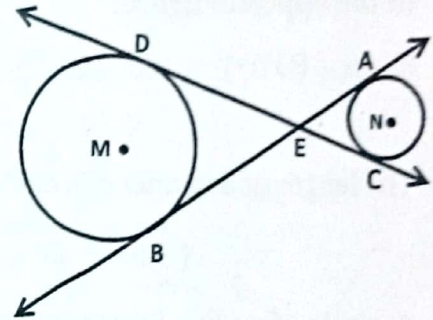
Fourth Question:

1) State two cases for the quadrilateral to be cyclic.

2) In the opposite figure:

\overline{AB} and \overline{CD} are two tangents to the circles M and N

Prove that: $AB = CD$

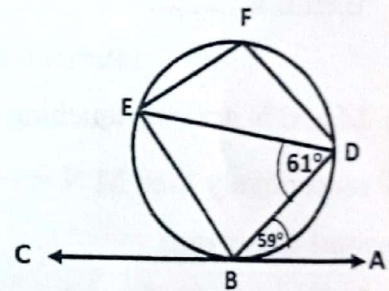


Fifth Question:

1) In the opposite figure:

\overline{AC} is tangent to the circle, $m(\angle ABD) = 59^\circ$,

$m(\angle BDE) = 61^\circ$ Find: $m(\angle EFD)$



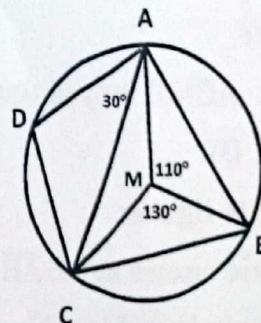
2) In the opposite figure: in the circle M

$m(\angle BMC) = 130^\circ$, $m(\angle AMB) = 110^\circ$

$m(\angle DAC) = 30^\circ$

1. Find $m(\angle D)$

2. Prove that: $AD = DC$



★(((انتهت الأسئلة)))★

Geometry 2018
- 2nd term -

Q.1 Choose:

- ① two
- ② twice
- ③ 120°
- ④ $\frac{1}{2} \pi r$
- ⑤ intersects the circle in two points
- ⑥ 2 cm

Q.2 a) solved before in 2017

b) solved before in 2017

Q.3 a) solved before in 2017

b) solved before in 2017

Q.4 a) solved before in 2017

b) solved before in 2017

Q.5 a) solved before in 2017

b) solved before in 2017

Good luck (30)