Alternate segment theorem worksheet pdf answers pdf

I'm not robot!

Exam-style question 2

The diagram shows a circle with centre O.

Work out the value of x.
You must give a reason for your answer.

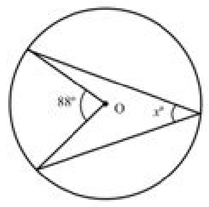


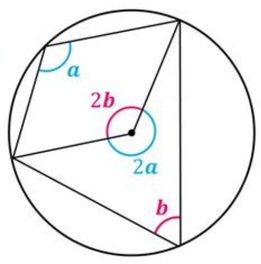
Diagram **NOT** accurately drawn

④ The sum of the opposite angles of a cyclic quadrilateral is 180°.

① The angle at the centre of a circle is twice the angle at the circumference when they are both subtended by the same arc.

$2a + 2b = 360°$

$a + b = 180°$



Circle Theorems

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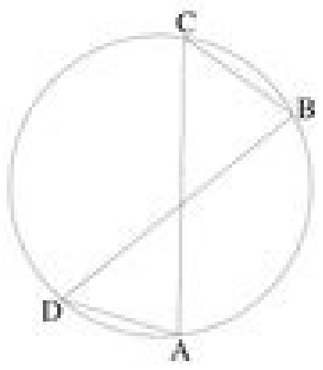
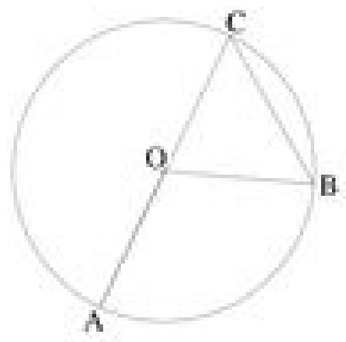
1:

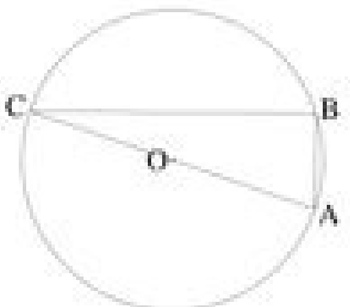
a) If ∠CAD = 67°, find ∠CBD.



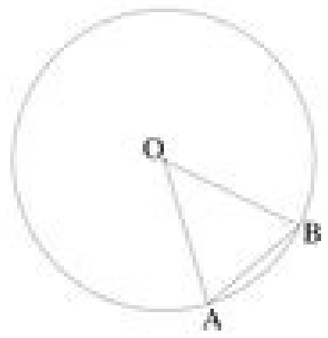
b) If ∠AOB = 112°, find ∠ACB.



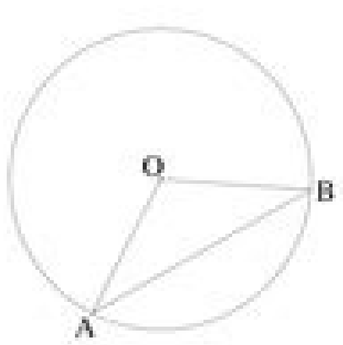
c) If ∠ACB = 21°, find ∠CAB.



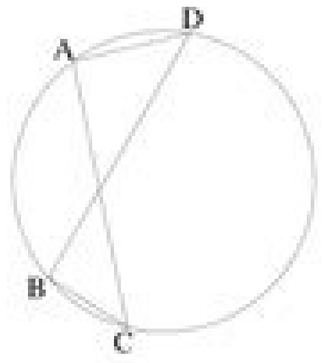
d) If ∠ABO = 71.5°, find ∠AOB.



e) If ∠ABO = 35.5°, find ∠AOB.



f) If ∠ACB = 44°, find ∠ADB.



Free worksheet created by MATHSprint. Circle Theorems:1

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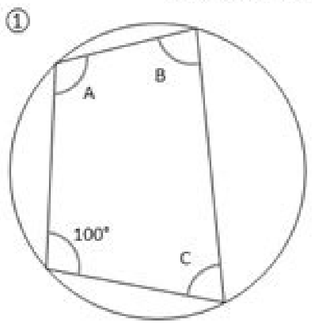
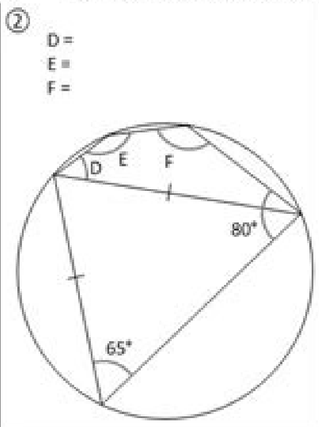
Cyclic Quadrilaterals We have enough information to find **some** of the missing angles. Which c

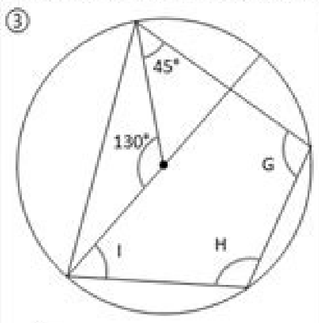
① A = B = C =



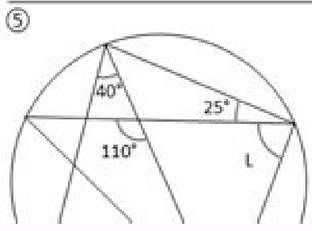
② D = E = F =



③ G = H = I =

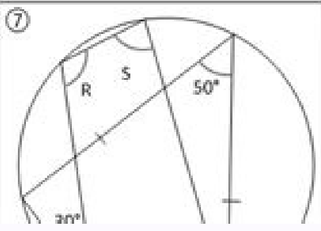


⑤



⑥ O = P = Q =

⑦



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Special Right Triangles Date_____ Period____

Find the missing side lengths. Leave your answers as radicals in simplest form.

1)

2)

3)

4)

5)

6)

7)

8)

In the above diagram, PAT¢ÃÂ¾Â\overline{ PAT}PAT is tangent to circle OOO at point A.A.A. If ¢ÃÂ ÂBCA=56¢ÃÂÃÂ ÂandÃ Â¢ÃÂ ÂCAP=49¢ÃÂÂ,\angle BCA={56}^\circ \text{ and } \angle CAP={49}^\circ,¢ÃÂ ÂBCA=56¢ÃÂÃÂ ÂandÃ Â¢ÃÂ ÂCAP=49¢ÃÂÂ, what are the measures of the angles ¢ÃÂ Âx\angle x¢ÃÂ Âx and ¢ÃÂ Ây?\angle y ?¢ÃÂ Ây? Note: The above diagram is not drawn to scale. If AT¢ÃÂ¾Â\overline{AT}AT is tangent to circle OOO with radius 444 at AAA and ¢ÃÂ ÂBAT=60¢ÃÂÂ,\angle BAT=60^\circ,¢ÃÂ ÂBAT=60¢ÃÂÂ, what is the area of ¢ÃÂ³ÂOAB?\triangle OAB ?¢ÃÂ³ÂOAB? In the above diagram, if PTQ¢ÃÂ¾Â\overline{PTQ}PTQ¢ÃÂÂ is tangent to both circles at TTT and ¢ÃÂ ÂABT=72¢ÃÂÂ,¢ÃÂ ÂDCT=76¢ÃÂÂ,\angle ABT={72}^\circ, \angle DCT={76}^\circ,¢ÃÂ ÂABT=72¢ÃÂÂ,¢ÃÂ ÂDCT=76¢ÃÂÂ, what is the value of ¢ÃÂ Âx+¢ÃÂ Ây\angle x+\angle y¢ÃÂ Âx+¢ÃÂ Ây in degrees? If PA¢ÃÂ¾Â\overline{PA}PA and PB¢ÃÂ¾Â\overline{PB}PB are tangent to circle OOO at points AAA and B,B,B, respectively, and ¢ÃÂ ÂAPB=68¢ÃÂÂ,\angle APB={68}^\circ,¢ÃÂ ÂAPB=68¢ÃÂÂ, what is the measure of ¢ÃÂ Âx\angle x¢ÃÂ Âx in degrees? Note: The above diagram is not drawn to scale. In the above diagram, quadrilateral ABCDABCDABCD is inscribed in circle OOO and AT¢ÃÂ¾Â\overline{AT}AT is tangent to circle OOO at point A.A.A. If ¢ÃÂ ÂBAT=59¢ÃÂÂ\angle BAT={59}^\circ¢ÃÂ ÂBAT=59¢ÃÂÂ and ¢ÃÂ ÂDBA=39¢ÃÂÂ,\angle DBA={39}^\circ,¢ÃÂ ÂDBA=39¢ÃÂÂ, what is the measures of ¢ÃÂ Âx\angle x¢ÃÂ Âx in degrees? Note: The above diagram is not drawn to scale. Level 6-7 GCSE Angles in the same segment are equal. \textcolor{red}{x} = \textcolor{red}{x}Ã Â Triangles drawn from the same chord will have the same angle when touching the circumference. Level 6-7 GCSE Opposite angles in a cyclic quadrilateral add up toÃ Â 180\degree. \textcolor{purple}{w}+\textcolor{red}{x}=180\degree \textcolor{blue}{y}+\textcolor{limegreen}{z}=180\degree This is a 4 sided shape with every corner touching the circumference of the circle. Level 6-7 GCSE The angle at the centre is twice the angle at the circumference.Ã Â The angle formed at the is exactly twice the angle to the circumference of a circle. level 6-7 gcse the perpendicular bisector of an agreement passes through the center of the circle. a perpendicular line and at the center of an agreement (a line drawn through the circle) will always pass through the center of the circle. level 6-7 gcse level 6-7 gcse radius will always meet a tangent at the circle at 90\grade. a tangent (a line that touches a single point on the circumference) will always make an angle of exactly 90\grade with the radius. You can say that a tangent and a ray that you meet are perpendicular to each other. level 6-7 gcse tangents from the same point to a circle are equal in length. ab = bc two tangents (a line that touches a single point on the circumference) extracted from the same external point are always equal in length. level 6-7 gcse the inscribed angle in a semicircle is always a right angle. a triangle designed with the diameter will always make an angle of 90\grade where it affects the circumference. another way of saying this is that a diameter ‘subdues’ a right angle to the circumference. level 6-7 gcse alternating segment theorem: the angle between the tangent and the side of the triangle is equal to the opposite inner corner. ? (This is the most difficult rule and can be difficult to identify).6-7 GCSE Level 6-7 GCSE below is a circle with center C. BD is a diameter of the circle, it is a point on the circumference. What is the size of the CBA corner? [2 signs] If a question says "shows our works", it is necessary to indicate which theorem / geometry circle done is used when using it. BD is a diameter of the circle, we know that the Bad triangle is confined inside the semicircle. So we can use rule 7, the corner in a semicircle is a right corner to deduce that \ a corner corner = 90 \ degree. To find CBA, we just have to remove 180 \ degree. \ Angle CBA = 180 \ Grado - 23 \ Grado - 90 \ Grado = 67 \ level 6-7 GCSE below is a circle with center C. A, B and D are points on the circumference. Corner \ BCD angle is 126 \ degree and angle \ CDA corner is 33 \ degree. Find the ABC corner. You have to show your job. [2 signs] The first circle theorem that we will use here is: Rule 3, the corner in the center is twice the corner of the circumference. The corner in the center is 126 \ degree, therefore; \ Angle Bad = 126 \ Degree \ DIV 2 = 63 \ degree. Now we know two of the four angles inside the ABCD. To find a third, just observe that the angles around a supreme point a \ Textcolor {orange} {360 \ Grad}: 360 \ Grado - 126 \ Grado = 234 \ degree in the corners in a quadrilateral sum at \ Textcolor { Orange} {360 \ Grad}, we can find the corner we are looking for. Translation: - 33 \ Grado - 63 \ Grado - 234 \ Degree = 30 \ Degree level 8-9 GCSE EXAMPLE QUESTIONS THE CANT THE CENTER TO THE CENTER IS Twice the corner to the circumference. Since the angle formed in the center, which in this case is 98 \ degree, is exactly the corner of the circumference of a circle at the same point. We simply have to divide the corner to the center of the circle from two: x = 98 \ degree \ div 2 = 49 \ degree the corner in a semicircle is always a right corner. Since any triangle designed with the diameter always make an angle of 90 ° where it affects the opposite circumference. We can also use that the internal corners in a triangle add up to 180 °, we find that, x = 180 \ degree - 90 \ Degree - 32 \ Degree = 58 \ degree first, recognize that from the BD it is a diameter, angle Bad is the corner in a semicircle. Our circle theorems tell us that the corner in a semicircle is a right corner so that Bad must be 90 \ degree. As we know now, we get that \ Text {Angle Bae} = 90 + 31 = 121 \ degree. Subsequently, we recognize Abde is a cyclic quadrilateral. on a relative note, the secondThe theorem we will use is: opposite angles in a four-sided cyclic sum at 180. Angle bae (which we have just processed) is opposite to the Cde angle, then \ text {corn cde} = 180 - 121 = 59 \ grades So, the final step to find the EDA angle will remove the size of the CDA angle from that of the CDE angle to get \ text {angle eda} = 59 - 18 = 41 \ degrees. Our first circle theorem here will be: the tangents to a circle from the same point are equal, which in this case tells us that AB and BD are equal in length. This means that ABD must be an isoscele triangle and therefore the two corners at the base must be equal. In this case those two corners are bad and ADB, none of which knows. Let the size of one of these corners be x, then using the fact that the corners in a triangle are added to 180, we get x + x + 42 = 180 \ degrees. Then, you will subtract 42 from both sides to get 2x = 180 - 42 = 138 \ degrees and divide both sides by 2 to get x = 69 \ degrees. Now we can use our second circle theorem, this time the theorem of the alternative segment. This tells us that the angle between the tangent and the side of the triangle is equal to the opposite inner corner. Since the ADB angle, which is 69 \ degrees, is the angle between the side of the triangle and the tangent, then the theorem of the alternative segment immediately gives us that the opposite internal angle, angle AED (what we are looking for) , is also 69 \ degrees. Firstly, using the fact angles within a triangle that are added to 180 degrees. Angle ABC is, 180 \ degrees-71 \ grad-23 \ degrees = 86 \ degrees The alternative segment theorem states the angle between the tangent and the side of the triangle is equal to the opposite inner corner, then x \ degrees = \ angle \ text {abc} = 86 \ degrees. 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