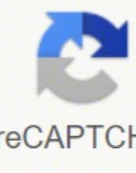
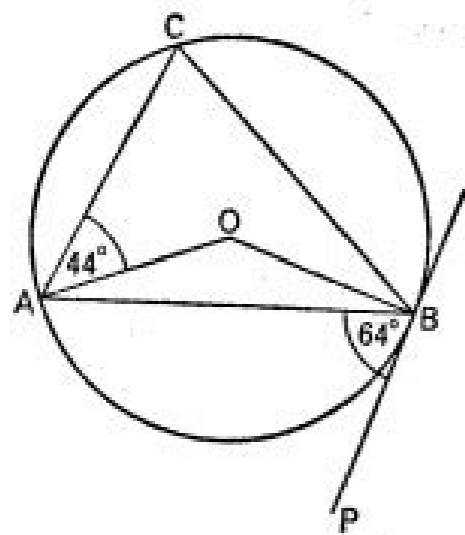


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4 (a)



In the above figure, PB is the tangent to the circle at B . The centre of the circle is O . Given that $PBA = 64^\circ$ and $OAC = 44^\circ$, calculate OAB and OBC . (6)

(b) Two circles of radii 9 cm and 4 cm touch externally. Calculate the length of the exterior common tangent. (4)

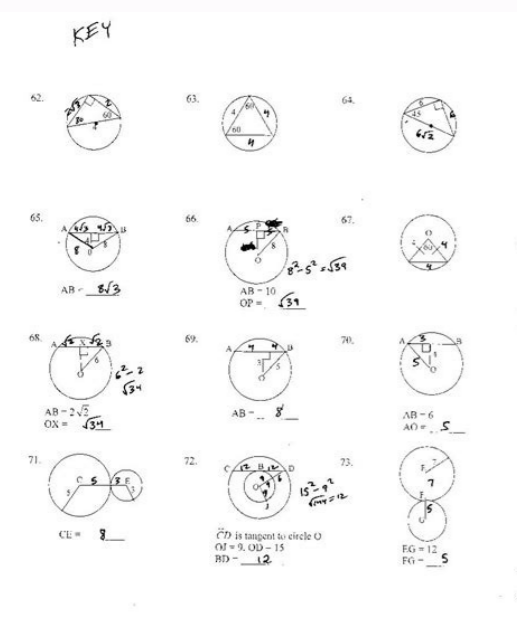
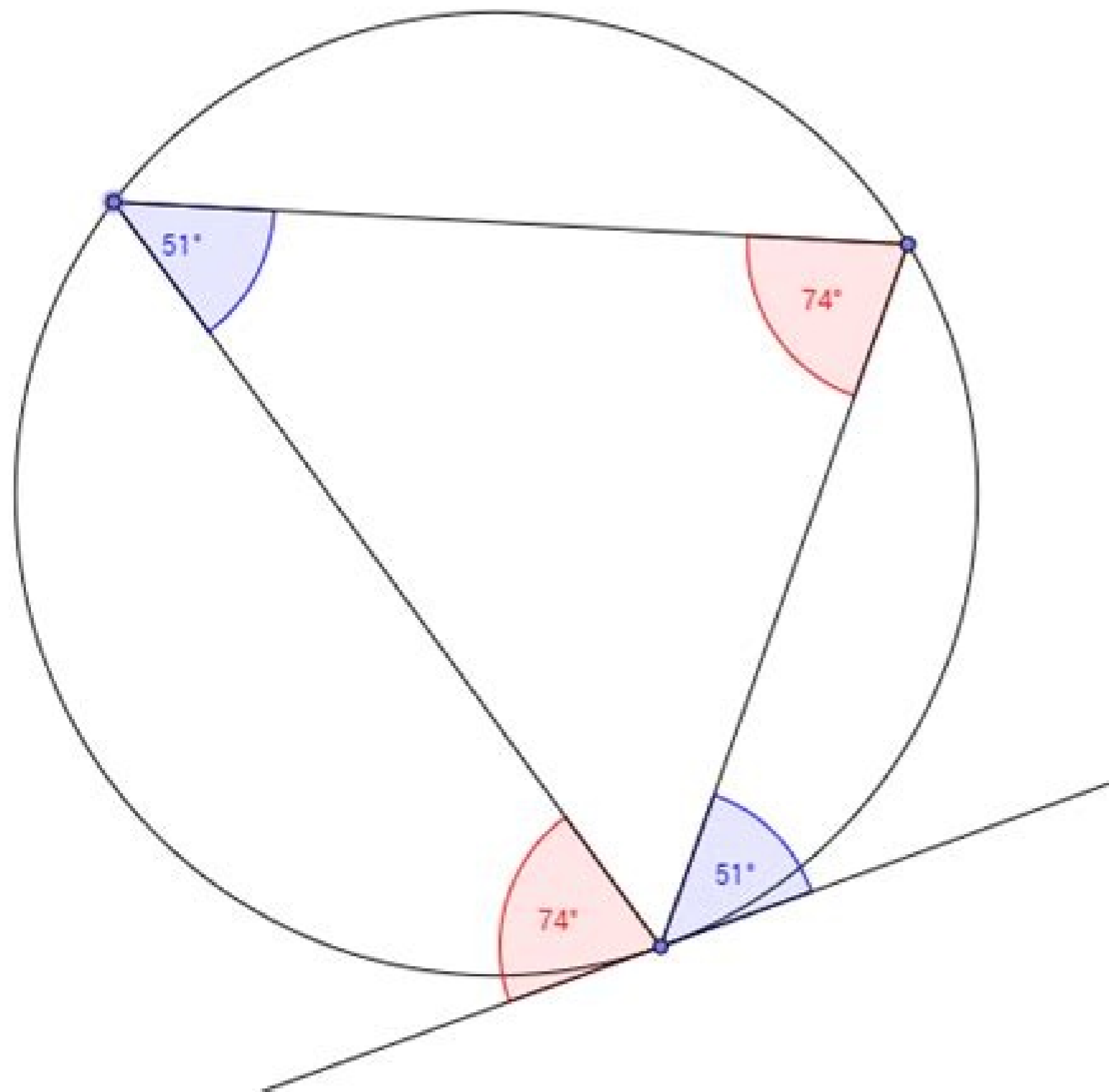
8
Intersecting Chords - Circle Theorems
B

AB and CD are chords of a circle that intersect at X.

Calculate the length BX marked w in the diagram.

$6 \times w =$

Answer cm (3 marks)



- Answer the following questions

a) Round 616.8546 to 1 significant figure

b) Round 0.000349 to 2 significant figures

c) Estimate the answer to $5846 + 198$
- Answer the following questions

a) Round 616.8546 to 1 significant figure

b) Round 0.000349 to 2 significant figures

c) Estimate the answer to $5846 + 198$
- Answer the following questions

a) Round 616.8546 to 1 significant figure

b) Round 0.000349 to 2 significant figures

c) Estimate the answer to $5846 + 198$

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textcolor {viola} {w} + textcolor {red} {x} = 180 degree textcolor {blue} {y} + textcolor {limegreen} {z} = 180 degrees this is a 4-sided shape With every corner that touches the circle circumference. So we can use rule 7, the angle in a semi-circle is a right angle to deduce that the negative angle = 90 degrees. (This is the hardest rule and can be difficult to locate). Our first circle theorem here will be: Tangents at a circle of the same point are the same, which in this case tells us that AB and BD are the same as length. This means that ABD must be an Isosceles triangle, and therefore the two corners at the base must be equal. ANGLE ABC is, 180 degrees-71 degrees-23 degrees = 86 degrees the alternative segment theorem states that the angle between the tangent and the side of the triangle is the same as the opposite indoor corner, then x degree = angle text {ABC} = 86 degrees. Level 6-7 GCSE The tangents from the same point to a circle are the same as length. Related Topics Worksheet and Example Questions Questions Questions Rates: 0% Rank: Correct Response: Rating: 0% Rank: Correct Response: April 4, 2018|July 21, 2021 CorbettMath Lets the size of one of these corners to be X, then using The fact that angles in a triangle Add to 180, we get $x + x + 42 = 180$ degrees. Now we can use our second circle theorem, this time the alternative segment theorem. Given that Angle ADB, which is 69 degrees, is the angle between the side of the triangle and the tangent, then the alternative segment theorem immediately gives us immediately that the opposite inner angle, AED angle (what we are looking for). It is also 69 degrees. A tangent (a line that touches a single point on the circumference) will always make an angle of exactly 90 degrees with the radius. As we know now, we get this text {corner bae} = $90 + 31 = 121$ Level 6-7 GCSE The angle in the center is double the circumference. The angle formed in the center is exactly double the circumference corner of a circle. BD is A. A. Of the circle, we know that the Bad triangle is confined to the semicircle. Mathster content is a fantastic resource for creating online and paper-based assessments and homework. Level 6-7 GCSE Level 6-7 GCSE The beam will always meet a ring to the 90-degree circle. A, B and D are points on the circumference. To find CBA, we only need to subtract from 180 degrees. Level 6-7 GCSE level 6-7 GCSE Below is a circle with center C. Our circle theorems tell us that the corner in a semi-circle is a right angle, so bad must be 90 gradually. Score: 0% Rank: correct answer: Page 2 Page 3 GCSE 8 - 9AqaEdexcelocrwjecaqa 2022Edexcel 2022CR 2022 Level 6-7 Angles GCSE In the same segment are the same. TextColor {red} {x} = textcolor {red} {x} A e Triangles designed by the same agreement will have the same angle when touching the circumference. This tells us that the angle between the tangent and the side of the triangle is the same as the opposite internal corner. You can say that a tangent and a radius that meet are perpendicular to each other. Name of the worksheet 1 2 3 parts of a circle for circle theorems 1 2 3 Circle Theorems (advanced) - No recognition required 1 2 3 Circle theorems (advanced) - Required motifs 1 2 3 Corbett Maths Keyboard Arrow Up Back to Top Corbett Mathematics offers original exams style questions and in circulation on any topic, as well as videos, passed documents and 5 days. What is the CBA corner size? Find the ABC corner. In this case those two corners are bad angles and adb, none of the two sa. Level 6-7 GCSE Opposite corners in a cyclic quadrangle Add up to 180 degrees. textcolor {limegreen} {x} = textcolor {limegreen} {x} textcolor {red} {y} = textcolor {red} {y} The angle between the tangent and the triangle will be the same as the corner alternative. To find a third, simply observe those angles around a sum of the point a TextColor {orange} {360 degree}: 360 degrees - 126 degrees = 234 Degree in which the corners in in Quadrilateral sum for TextColor {Orange} {360 degree}, we can find the angle in which we are looking for. Angle Bae (which we have just worked) opposed the CDE angle, then text {CDE angle} = $180 - 121 = 59$ degrees, then, the final step to find the corner EDA subtracts the size of the CDA angle Of that of Angle CDE to get text {angle eda} = $59 - 18 = 41$ degrees. Then, subtract 42 on both sides to obtain $2x = 180 - 42 = 138$ degree and divide both sides of 2 to obtain $x = 69$ degrees. We can also use that the internal angles in a triangle add up to 180 A ^, we find it, $x = 180$ degrees - 90 degrees - 32 degrees = 58 degrees, first, first recognize that since BD is A diameter, the angle is a bad angle in a semicircle. Level 6-7 GCSE Theorem alternating suggestion: the angle between the tangent and the side of the triangle is the same as the opposite internal corner. On a related note, the second circle theorem that we use is: opposite angles in a quadrilateral cyclical sum at 180. BD is a diameter of the circle, a is a point on the circumference. [2 Marks] If a question says "SSHOW our work", you must indicate which circle theorem / geometry makes the fact that you use when you use it. First of all, using the corners made inside a triangle add together with 180 degrees. The corner in the center is 126 degrees, so: Angle bad = 126 degrees Div 2 = 63 degrees. They kindly allowed me to create 3 editable versions of each worksheet, complete with answers. Angle Angle BC3 is 126 degrees and corner corner of the corner is 33 degrees. Level 6-7 GCSE The perpendicular bisector of an agreement passes through the center of the circle. A perpendicular line and the center of an agreement (a line drawn through the circle) will always pass through the center of the circle. You have to show your work. Angle CBA = 180 - 23 grade - 90 degrees = 67 level 6-7 GCSE is a circle with center C. Subsequently, we recognize that ABDE is a cyclic quadrangle. Now we know two of the four four Inside ABCD. arrow back returns to the circle theorems and parts of a circle if you want to make a task, some coverage work, or a lot of extra practice, this is the place for you. AB = BC two bribes (a line that touches a single point on the circumference) designed by the same external point is always the same as length. Angle ABC = 360 degrees - 33 degrees - 63 degrees - 234 degrees = 30 degrees Level 8-9 GCSE Example Questions The angle in the center is double the circumference angle. Since the angle formed the center, which in this case is 98 degrees, is exactly double twice the circumference of a circle at the same point. We simply need to split the angle to the center of the circle of two: $x = 98$ degrees Div 2 = 49 degree the angle in a semicircle is always a right angle. Since any triangle drawn with the diameter will always make an angle of 90 ° where it affects the opposite circumference. [2 Marks] The first circle theorem Welcomes here is: Rule 3, the corner to the center is double the corner on the circumference. Another way of saying this is a diameter A e a. - A ^ "subtends" a right angle to the circumference. And better than all that everyone (well, most!) Come with answers. Level 6-7 GCSE The angle inscribed in a semicircle is always a right angle. A triangle drawn with the diameter will always make an angle of 90 degrees where it affects the circumference. It really is one of the best websites in circulation. Around.

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