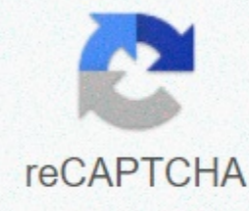




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Circle theorems pdf answers

Level 8-9 Angles in the same segment are equal. $\angle x = \angle x$ Triangles drawn from the same chord will have the same angle when touching the perimeter. Opposite angles in a cyclic quadruple if you add up to 180° . $\angle w + \angle x = 180^\circ$ This is a 4-sided shape with each corner that touches the circle's circumference. The angle in the middle is twice the angle at the perimeter. The angle formed at the center is exactly twice the angle at the circumference of a circle. Perpendicular kite sector of a chord passes through the center of the circle. A line perpendicularly and in the center of a chord (a line drawn across the circle) will always pass through the center of the circle. The radius will always face a key to the circle in 90° . A tangent (a line that touches a single point on the perimeter) will always make an angle of exactly 90° with the radius. You could say that a key and radius that meet are perpendicular to each other. The keys from the same point to a circle are the same length. $AB = BC$ Two tangents (a line touching a single point on the perimeter) drawn from the same external point are always the same length. The angle inscribed in a semicircle is always a right angle. A triangle drawn with the diameter will always make a 90° angle where it hits the perimeter. Another way of saying this is that a diameter subtends a right-angled at the perimeter. Alternate segment clause: The angle between the tangent and the side of the triangle is equal to the opposite internal angle. $\angle x = \angle x$ The angle between the tangent and the triangle will be equal to the angle in the alternate segment. (This is the hardest rule and can be difficult to detect). Below is a circle with center C. BD is a diameter of the circle, A is a point on the perimeter. What is the size of the angle CBA? [2 marks], if a query says show our work, you need to specify what circular clause/geometry fact you use when using it. BD is a diameter of the circle, we know that the triangle BAD is limited within the semicircle. So we can use Rule 7, the angle in a semicircle is a right angle to deduce that $\angle BAD = 90^\circ$. To find CBA, we only need to subtract from 180° . $\angle CBA = 180^\circ - 23^\circ - 90^\circ = 67^\circ$ Below is a circle with my C. A, B and D are points on the perimeter. Angle $\angle BCD$ is 126° and angle $\angle CDA$ is 33° . Find angle ABC. You have to show your work. [2 marks]. The first circular clause we are going to use here is: Rule 3, the angle in the middle is twice the angle at the perimeter. The angle in the center is 126° , so $\angle BAC = \frac{1}{2} \times 126^\circ = 63^\circ$. We now know two of the four angles inside ABCD. To find a third, simply note that angles around a point sum to 360° : $360^\circ - 126^\circ - 234^\circ = 360^\circ$ Because the angles in a four-bed sum to 360° , we can find the angle we are looking for. $\angle ABC = 360^\circ - 33^\circ - 63^\circ - 234^\circ = 30^\circ$ The angle at the center is twice the angle at the perimeter. Given that the angle formed in the center, which in this case is 98° , is exactly twice the angle at the circumference of a circle at the same point. We simply need to divide the angle in the center of the circle by two: $x = 98^\circ \div 2 = 49^\circ$ The angle of a semicircle is always a right angle. Given that any triangle is drawn with the diameter will always make a 90° angle where it hits the opposite circumference. We can also use that inner angles in a triangle to add up to 180° , we find that, $x = 180^\circ - 90^\circ - 32^\circ = 58^\circ$ Firstly, recognize that since BD is a diameter, angle BAD is the angle of a semicircle. Our circle movements tell us that the angle in a semicircle is a right-angle so bad must be 90° . As we now know this, we get that $\angle BAE = 90 + 31 = 121^\circ$. Then we realize that ABDE is a cyclical four-sided. On one related note, the second circle theorem we'll use is: opposite angles in a cyclic four-sided sum to 180° . Angle BAE (which we just worked out) is the opposite angle CDE, so $\angle CDE = 180 - 121 = 59^\circ$. Then, the last step to finding the angle eda will be subtract the size of the angle CDA from the by angle CDE to get $\angle EDA = 59 - 18 = 41^\circ$. Our first circle theorem here will be: keys to a circle from the same point are equal, which in this case tells us that AB and BD are the same length. This means that ABD must be a corpse pig triangle, and so the two angles at the base must be the same. In this case these two angles are angles BAD and ADB, none of them know. Let the size of one of these angles be x, then use the fact that angles in a triangle add 180° , we get $x + x + 42 = 180^\circ$. Then subtract 42 from both sides to get $2x = 180 - 42 = 138^\circ$, and divide both sides by 2 to get $x = 69^\circ$. Now we can use our second circular clause, this time the alternative segment clause. This tells us that the angle between the tangent and the side of the triangle is equal to the opposite inner angle. Given that the angle ADB, which is 69° , is the angle between the side of the triangle and the tangent, then the alternate segment theorem immediately gives us that the opposite internal angle, angle AED (the one we are looking for), is also 69° . First, using the fact angles the inside of a triangle add together to 180° . Angle ABC is. The alternate segment statement theorem specifies the angle between the tangent and the side of the triangle equal to the opposite inner angle, hence $\angle ABC = 86^\circ$. Try an audit card on this topic. 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