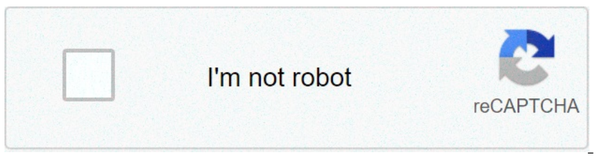

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Circle theorems gcse worksheet pdf

You should be familiar with all theorems of 8 circles at the point where: a) You can identify when they are to be used. b) You can describe which you used with the appropriate language. Make sure you are satisfied with the following topics before continuing Internal Circles and Outer Corners Basic geometry standards Note: Hoop geometry problems often require knowledge of all basic geometry rules to solve them. The angles in the same segment are equal.\\ ♪ The triangles drawn from the same agreement will have the same angle when you touch the circumference. The opposite corners in a cyclic quadrilateral add up to 180\grade. * The corner at the center is twice the angle at the circumference. The angle formed at the center is exactly twice the angle at the circumference of a circle. 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. The radius will always meet a tangent at the 90\grade circle. 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 areeach other. The 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. The inscribed corner in a semicircle is always a right angle. A triangle designed with the diameter will always make a 90\grade angle where it affects the circumference. Another way of saying this is that a diameter 'subdues' a right angle to the circumference. Alternate 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 spot). Below is a circle with center C. BD is a circle diameter, A is a point on the circumference. What is the size of the CBA angle? [2 signs] If a question says "show our jobs", it is necessary to indicate which circle theorem / geometry made is used when using it. BD is a circle diameter, we know that the BAD triangle is confined within the semicircle. Then we can use rule 7, the angle in a semicircle is a right angle to deduce that \angle BAD = 90\grade. To find CBA, we just have to remove from 180\grade. \angle CBA = 180\grade - 23\grado - 90\grado = 67\grado Below is a circle with center C. A, B and D are points onCorner BCD is 126\grade and angle \angle CDA is 33\grad. Find the ABC corner. You have to show your job. [2 signs] The first circle theorem we will use here is: Rule 3, the angle at the center is twice the angle at the circumference. The corner at the center is 126\grade, then; \angle BAD = 126\degree \div 2 = 63\grad. Now we know two of the four angles within the AABCD. To find a third, just observe that the corners around a sum point at \textcolor{orange}{360\grad}: 360\grado - 126\grado = 234\grado Since the angles in a quadrilateral sum to \textcolor{orange}{360\grad}, we can find the angle we are looking for. ♪ - 33\grado - 63\grado - 234\grado = 30 \grado Thank you for your participation! Related topics: Other lessons for GCSE Maths Math Worksheets Video, solutions, activities and worksheets suitable for GCSE Maths. What are the circle theorems and how to use the circle theorems to find missing angles? 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