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there is a slight difference between congruence and equality congruence relates segments angles and figures whereas equality relates numbers which can include lengths of segments and measures of angles learn what it means for two figures to be congruent and how to determine whether two figures are congruent or not use this immensely important concept to prove various geometric theorems about triangles and parallelograms two line segments on a number line are congruent if they have the same length to check you can count the number of units between the two endpoints of each line segment if the counts are the same the line segments are congruent created by sal khan when two line segments exactly measure the same they are known as congruent lines for example two line segments xy and ab have a length of 5 inches and are hence known as congruent lines when two angles exactly measure the same they are known as congruent angles in geometry congruent means identical in shape and size congruence can be applied to line segments angles and figures any two line segments are said to be congruent if they are equal in length two angles are said to be congruent if they are of equal measure two triangles are said to be congruent if one can be placed over the other so that they coincide fit together this means that congruent triangles are exact copies of each other and when fitted together the sides and angles which coincide called corresponding sides and angles are equal learn about segments and congruence segment is just a line with two end point learn how to measure the length of a segment congruence means equal except c in this video we introduce the notion of congruence of line segments and present the three congruence axioms related to segment congruence namely segment translation transitivity of the three properties of congruence are the reflexive property of congruence the symmetric property of congruence and the transitive property of congruence these properties can be applied to segment angles triangles or any other shape a congruent segment is a set of two line segments that are equal in length a line segment is a straight line with a definite start and end point since there is a definite sal proves that two pairs of segments are congruent using the asa and aas congruence criteria created by sal khan congruence in geometry what are congruent shapes study the conditions for congruent triangles congruent figures congruent lines and congruent symbol using congruent segments find the value of a segment learn how to find the missing measure of a segment a segment is a line that has two endpoints a segment can be subdivided into two line segments are congruent if they have the same length two angles are congruent if they have the same measure two circles are congruent if they have the same diameter are a b and c d congruent learn for free about math art computer programming economics physics chemistry biology medicine finance history and more khan academy is a nonprofit with the mission of providing a free world class education for anyone anywhere one of the exercises in my book tell me to prove this using the property of reflexivity segment ab is congruent to segment ab and the theorem that is if segment ab is congruent to segment cd and segment ab is congruent to segment ef then segment cd is congruent to segment ef this geometry video tutorial explains how to do two column proofs for congruent segments it covers midpoints the substitution property of congruence and the addition division property of 3 13 unit test congruence and constructions part 1 louis is constructing the perpendicular bisector of gh gh he has already constructed an arc as shown place the point of the compass on point g and draw an arc using the same width for the opening of the compass as the first arc so first let me prove that if segment ab is congruent to segment cd then the length of segment ab which we ll just denote as ab without the line over it is equal to the length of segment cd how do we do that geometry 1 2 using segments and congruence 42 849 views 518 objective use segment postulates to identify congruent segments goo gl forms wqzmhqqzqvajxzos2

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so first let me prove that if segment ab is congruent to segment cd then the length of segment ab which we ll just denote as ab without the line over it is equal to the length of segment cd how do we do that

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