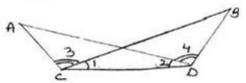


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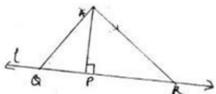


Q.29 In the figure  $\angle BCD = \angle ADC$  and  $\angle ACB = \angle BDA$ . Prove that  $AD=BC$

and  $\angle A = \angle B$

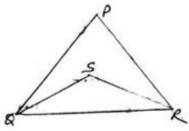


Q.30 In the given figure  $AP \perp l$  and  $PR > PQ$ . Show that  $AR > AQ$

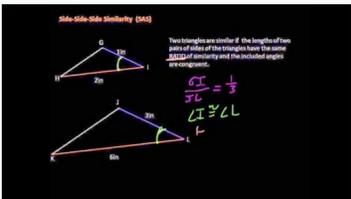


Q.31 Prove that if in two triangles two angles and the included side of one triangle are equal to two angles and the included side of the other triangle, then the two triangles are congruent.

Q.32 In the given figure PQR is a triangle and S is any point in its interior, show that  $SQ + SR < PQ + PR$

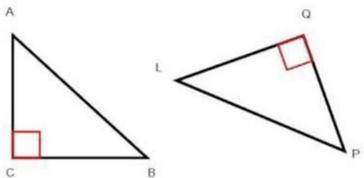


- Answers :
- (1) b (2) b (3) b (4) b (5) c (6) b  
 (7) c (8) c (9) b (10) a (11) a (12) c  
 (13)  $60^\circ$  (14) BC, AC

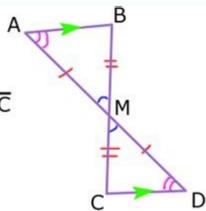


### Theorem 4-8 Leg - Angle Congruence (LA)

If one leg and an acute angle of one right triangle are congruent to the corresponding leg and acute angle of another right triangle, then the triangles are congruent.



Given: M is the midpoint of AD and BC  
 Prove:  $\overline{AB} \parallel \overline{CD}$



Statements	Reasons
1. Given: M is the midpoint of AD and BC	1. Given
2. $\overline{AM} \cong \overline{MD}$ $\overline{BM} \cong \overline{MC}$	2. Definition of Midpoint
3. $\angle AMB \cong \angle DMC$	3. Vertical Angles Theorem
4. $\triangle ABM \cong \triangle DMC$	4. SAS Thm
5. $\angle A \cong \angle D$	5. CPCTC
6. $\overline{AB} \parallel \overline{CD}$	6. Converse of Alt. Interior Angles Thm



Related Pages Congruent Triangles More Geometry Lessons Congruent Triangles Congruent triangles are triangles that have the same size and shape. This means that the corresponding sides are equal and the corresponding angles are equal. We can tell whether two triangles are congruent without testing all the sides and all the angles of the two triangles. In this lesson, we will consider the four rules to prove triangle congruence. They are called the SSS rule, SAS rule, ASA rule and AAS rule. In another lesson, we will consider a proof used for right triangles called the Hypotenuse Leg rule. As long as one of the rules is true, it is sufficient to prove that the two triangles are congruent. The following diagrams show the Rules for Triangle Congruency: SSS, SAS, ASA, AAS and RHS. Take note that SSA is not sufficient for Triangle Congruency. Scroll down the page for more examples, solutions and proofs. Side-Side-Side (SSS) Rule Side-Side-Side is a rule used to prove whether a given set of triangles are congruent. The SSS rule states that: If three sides of one triangle are equal to three sides of another triangle, then the triangles are congruent. In the diagrams below, if  $AB = RP$ ,  $BC = PQ$  and  $CA = QR$ , then triangle ABC is congruent to triangle RPQ. Side-Angle-Side (SAS) Rule Side-Angle-Side is a rule used to prove whether a given set of triangles are congruent. The SAS rule states that: If two sides and the included angle of one triangle are equal to two sides and included angle of another triangle, then the triangles are congruent. An included angle is an angle formed by two given sides. Included Angle Non-included angle For the two triangles below, if  $AC = PQ$ ,  $BC = PR$  and angle  $C = \text{angle } P$ , then by the SAS rule, triangle ABC is congruent to triangle QRP. Angle-side-angle is a rule used to prove whether a given set of triangles are congruent. The ASA rule states that: If two angles and the included side of one triangle are equal to two angles and included side of another triangle, then the triangles are congruent. Angle-Angle-Side (AAS) Rule Angle-side-angle is a rule used to prove whether a given set of triangles are congruent. The AAS rule states that: If two angles and a non-included side of one triangle are equal to two angles and a non-included side of another triangle, then the triangles are congruent. In the diagrams below, if  $AC = QP$ , angle  $A = \text{angle } Q$ , and angle  $B = \text{angle } R$ , then triangle ABC is congruent to triangle QRP. Three Ways To Prove Triangles Congruent A video lesson on SAS, ASA and SSS. SSS Postulate: If there exists a correspondence between the vertices of two triangles such that three sides of one triangle are congruent to the corresponding sides of the other triangle, the two triangles are congruent. SAS Postulate: If there exists a correspondence between the vertices of two triangles such that two sides and the included side of one triangle are congruent to the corresponding parts of the other triangle, the two triangles are congruent. ASA Postulate: If there exists a correspondence between the vertices of two triangles such that two angles and the included side of one triangle are congruent to the corresponding parts of the other triangle, the two triangles are congruent. SAS Postulate: If there exists a correspondence between the vertices of two triangles such that two sides and the included angle of one triangle are congruent to two sides and the included angle of another triangle, then the two triangles are congruent. Show Video Lesson Prove Triangle Congruence by SAS Postulate How to Prove Triangles Congruent using the Angle Side Angle Postulate? If two angles and the included side of one triangle are congruent to two angles and the included side of another triangle, then the two triangles are congruent. Show Video Lesson Prove Triangle Congruence by AAS Postulate How to Prove Triangles Congruent using the Angle Angle Side Postulate? If two angles and a non-included side of one triangle are congruent to two angles and a non-included side of another triangle, then the two triangles are congruent. Show Video Lesson Try the free Mathway calculator and problem solver below to practice various math topics. Try the given examples, or type in your own problem and check your answer with the step-by-step explanations. We welcome your feedback, comments and questions about this site or page. Please submit your feedback or enquiries via our Feedback page. Two triangles are congruent if they have: exactly the same three sides and exactly the same three angles. But we don't have to know all three sides and all three angles ...usually three out of the six is enough. There are five ways to find if two triangles are congruent: SSS, SAS, ASA, AAS and HL. 1. SSS (side, side, side) SSS stands for "side, side, side" and means that we have two triangles with all three sides equal. For example: is congruent to: (See Solving SSS Triangles to find out more) If three sides of one triangle are equal to three sides of another triangle, the triangles are congruent. 2. SAS (side, angle, side) SAS stands for "side, angle, side" and means that we have two triangles where we know two sides and the included angle are equal. For example: is congruent to: (See Solving SAS Triangles to find out more) If two sides and the included angle of one triangle are equal to the corresponding sides and angle of another triangle, the triangles are congruent. 3. ASA (angle, side, angle) ASA stands for "angle, side, angle" and means that we have two triangles where we know two angles and the included side are equal. For example: is congruent to: (See Solving ASA Triangles to find out more) If two angles and the included side of one triangle are congruent to two angles and the included side of another triangle, then the two triangles are congruent. 4. AAS (angle, angle, side) AAS stands for "angle, angle, side" and means that we have two triangles where we know two angles and the non-included side are equal. For example: is congruent to: (See Solving AAS Triangles to find out more) If two angles and the non-included side of one triangle are equal to the corresponding angles and side of another triangle, the triangles are congruent. 5. HL (hypotenuse, leg) This one applies only to right angled-triangles! HL stands for "Hypotenuse, Leg" (the longest side of a right-angled triangle is called the "hypotenuse", the other two sides are called "legs") It means we have two right-angled triangles with the same length of hypotenuse and the same length for one of the other two legs. It doesn't matter which leg since the triangles could be rotated. For example: is congruent to: (See Pythagoras' Theorem to find out more) If the hypotenuse and one leg of one right-angled triangle are equal to the corresponding hypotenuse and leg of another right-angled triangle, the two triangles are congruent. Caution! Don't Use "AAA" AAA means we are given all three angles of a triangle, but no sides. This is not enough information to decide if two triangles are congruent! Because the triangles can have the same angles but be different sizes: is not congruent to: Without knowing at least one side, we can't be sure if two triangles are congruent. 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RESOURCES BY STANDARD AI GEO AII PLUS or www.commoncorestatestandards.org RESOURCES BY TOPIC AI GEO AII PRECALCULUS CALCULUS QUICK TOPICS REGENTS EXAMS WORKSHEETS JMAP ON JUMBLED An online platform for the above Algebra I resources REGENTS BOOKS AI LESSON PLANS WORKSHEET GENERATORS EXTRAS REGENTS EXAM ARCHIVES 1866-now JMAP RESOURCE ARCHIVES AI/GE0/AII (2015-now) IA/GE/A2 (2007-17) Math A/B (1998-2010) REGENTS RESOURCES INTERDISCIPLINARY EXAMS NYC TEACHER RESOURCES This function is unusual because it is the exact same as its derivative. This means that for every x value, the slope at that point is equal to the y value Limit Definition Proof of ex Limit Definition: By laws of exponents, we can split the addition of exponents into multiplication of the same base Factor out an ex We can put the ex in front of the limit We see that as h approaches 0, the limit will get closer to 0/0 which is an indeterminate form (meaning we don't really know what's happening) to value as both the numerator and denominator approach 0). What we can do is plug in the point (0,1) and see the function's behavior at that point. This limit definition states that e is the unique positive number for which which we can clearly see on the graph. Using this definition, we can substitute 1 for the limit Implicit Differentiation Proof of ex Let Then Taking the derivative of x and taking the derivative of y with respect to x yields Multiply both sides by y and substitute ex for y. Proof of ex by Chain Rule and Derivative of the Natural Log Let and consider From Chain Rule, we get We know from the derivative of natural log, that We also know that ln(e) is 1 Now we can substitute 1 and 1/u into our equation Multiply both sides by u and substitute ex for u.

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