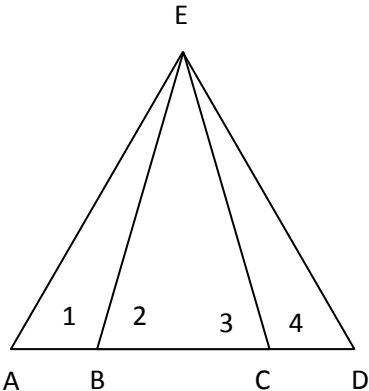
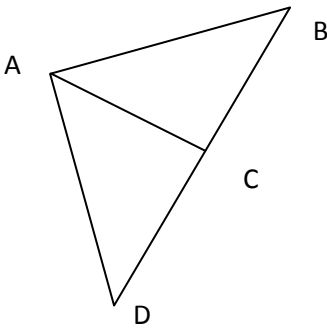


Name: _____

Date _____

Topic: Indirect Euclidean Proofs - Worksheet 1

Write reasons for the following statements of proofs:

 <p>GIVEN :</p> <p>$AB \cong CD \triangle EB \cong EC$</p>	1.	Given
	2.	Addition property of equality
	3.	Partition postulate
	4.	Base Angles Theorem
	5.	Substitution
	6.	SAS
 <p>Given :</p>	7.	Definition of perpendicular lines
	8.	Definition of bisector
	9.	Reflexive property of congruence
	10.	SAS Postulate

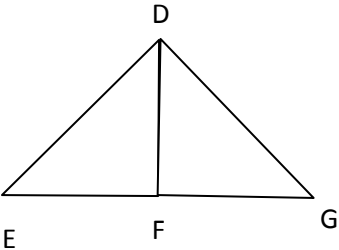
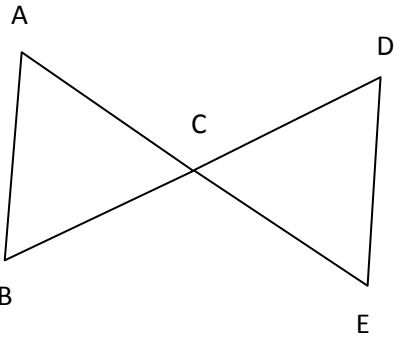


Name: _____

Date _____

Topic: Indirect Euclidean Proofs - Worksheet 2

Write reasons for the following statements of proofs:

<div style="text-align: center;">  </div> <p>Given :</p> <p>DF bisects \angle DEG</p>	<p>1. Definition of angle bisector</p> <p>2. Given</p> <p>3. Pythagoras Theorem</p> <p>4. Reflexive property of congruence</p> <p>5. ASA</p>
<div style="text-align: center;">  </div> <p>Given :</p> <p>\angleBAC = \angleDEC</p>	<p>6. Given</p> <p>7. Vertical angles are congruent</p> <p>8. ASA</p> <p>9. Bisector divides a segment into equal halves</p> <p>10. CPCTC</p>

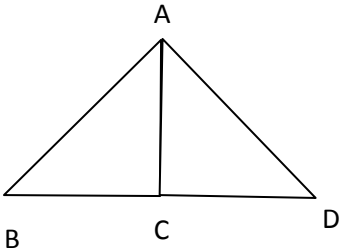
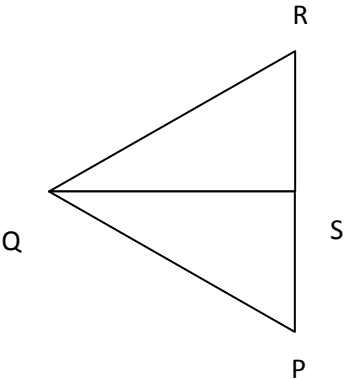


Name: _____

Date _____

Topic: Indirect Euclidean Proofs - Worksheet 3

Write reasons for the following statements of proofs:

 <p>Given :</p> <p>AC bisects $\angle ABC$</p>	1.	Given
	2.	Reflexive property of congruence
	3.	Definition of angle bisector
	4.	ASA
	5.	Pythagoras Theorem
 <p>Given :</p> <p>ABCD is a parallelogram</p>	6.	Given
	7.	Bisector divides angle into 2 congruent angles
	8.	Reflexive property of congruence
	9.	Pythagoras Theorem
	10.	SAS

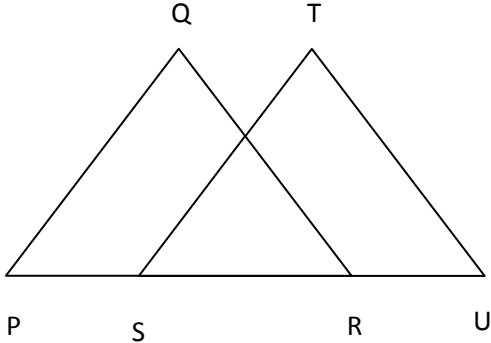


Name: _____

Date _____

Topic: Indirect Euclidean Proofs - Worksheet 4

Write reasons for the following statements of proofs:

 <p>Given: _____ _____ TU _____</p>	1.	Given
	2.	Given
	3.	Corresponding angles of parallel lines are congruent
	4.	Given
	5.	Addition property of equality
	6.	Partition postulate
	7.	Partition postulate
	8.	Substitution property
	9.	AAS
	10.	CPCTC

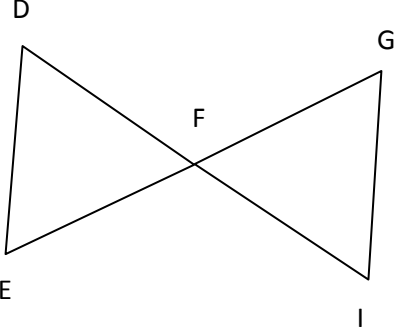
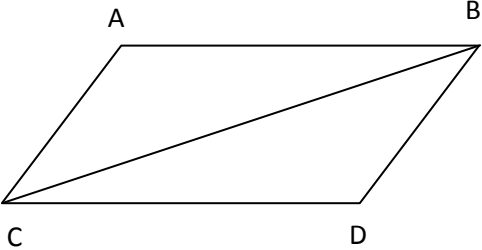


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Topic: Indirect Euclidean Proofs - Worksheet 5

Write reasons for the following statements of proofs:

 <p>Given : _____ _____ $\angle EDF = \angle GIF$</p>	1. Given	
	2. Bisector divides a segment into equal halves	
	3. Vertical angles are congruent	
	4. ASA	
	5. CPCTC	
	6. Definition of parallelogram	
	7. Definition of parallelogram	
	8. Alternate interior angles of parallel lines are congruent.	
	9. Reflexive property of congruence	
	10. ASA	
 <p>Given : ABCD is a parallelogram</p>		

