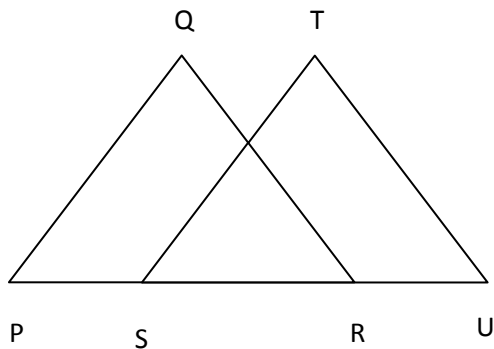


Name: _____

Date _____

Topic: Indirect Euclidean Proofs Reasoning Five Pack - Worksheet 1

Write reasons for the following statements of proofs:



Given: _____

 $QR \parallel TU$

1. $\overline{QR} \parallel \overline{TU}$
2. $\angle PQR \cong \angle STU$
3. $\angle QRP \cong \angle TUS$
4. $\overline{PS} \cong \overline{RU}$
5. $\overline{PS} + \overline{RS} = \overline{RU} + \overline{RS}$
6. $\overline{PR} = \overline{PS} + \overline{RS}$
7. $\overline{SU} = \overline{RU} + \overline{RS}$
8. $\overline{PR} = \overline{SU}$
9. $\triangle PQR \cong \triangle STU$
10. $\angle QPR \cong \angle TSU$

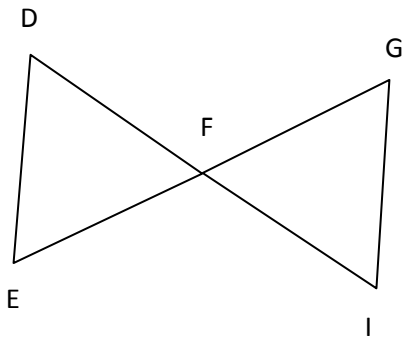


Name: _____

Date _____

Topic: Indirect Euclidean Proofs Reasoning Five Pack - Worksheet 2

Write reasons for the following statements of proofs:



Given :

$$\angle EDF = \angle GIF$$

1. $\angle EDF = \angle GIF$

2. $\overline{DF} = \overline{FI}$

3. $\angle DFE = \angle GFI$

$$\triangle DFE \cong \triangle GFI$$

4.

5.

$$\angle DEF \cong \angle GIF$$

6.

$$AD \parallel BC$$

7.

$$AB \parallel DC$$

8.

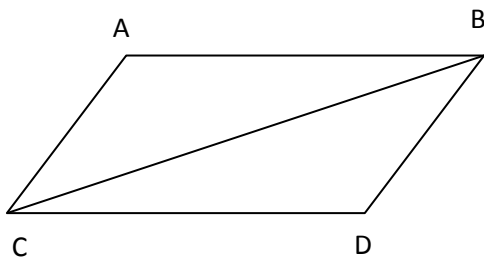
$$\angle ADB = \angle DBC$$

9.

$$\overline{DB} = \overline{DB}$$

$$\triangle DBA \cong \triangle BDC$$

10.



Given :

ABCD is a parallelogram

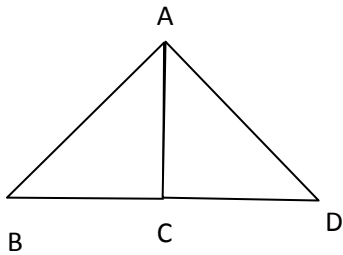


Name: _____

Date _____

Topic: Indirect Euclidean Proofs Reasoning Five Pack - Worksheet 3

Write reasons for the following statements of proofs:



Given :

AC bisects $\angle ABC$

1. $\angle BCA = \angle DCA$

2. $\overline{AC} = \overline{AC}$

3. $\angle BAC = \angle DAC$

$\triangle BAC \cong \triangle DAC$

4.

5. $AB = AD$

6. $\overline{RS} = \overline{SP}$

7. $\angle QSP = \angle QSR$

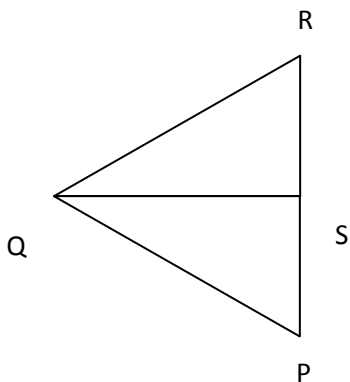
8. $\overline{QS} = \overline{QS}$

9.

$PQ = QR$

$\triangle QRS \cong \triangle QPS$

10.



Given :

ABCD is a parallelogram

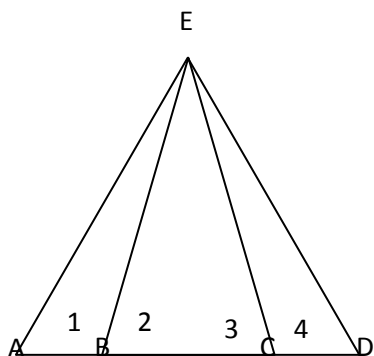


Name: _____

Date _____

Topic: Indirect Euclidean Proofs Reasoning Five Pack - Worksheet 4

Write reasons for the following statements of proofs:



1. $AB \cong CD, EB \cong EC$

2. $\overline{AB} + \overline{BC} = \overline{CD} + \overline{BC}$

3. $AC = AB + BC$
 $BD = CD + BC$

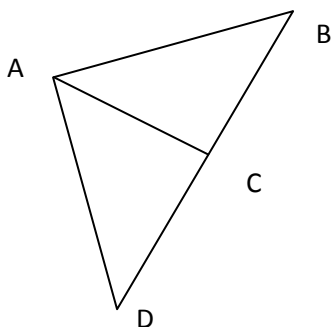
4. $\angle 2 \cong \angle 3$

GIVEN :

$AB \cong CD$ \triangle $EB \cong EC$

5. $AC \cong BD$

6. $\triangle AEC \cong \triangle DEB$



Given :

7. $\angle ACD$ and $\angle ACB$ are right angles

8. $DC \cong CB$

9. $AC \cong AC$

$\triangle ACD \cong \triangle ACB$

10.

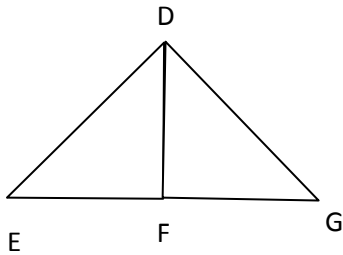


Name: _____

Date _____

Topic: Indirect Euclidean Proofs Reasoning Five Pack - Worksheet 5

Write reasons for the following statements of proofs:



Given :

DF bisects \angle DEG

1. $\angle EDF = \angle GDF$

2. $\angle EFD = \angle GFD$

3. $DE = DG$

$\overline{DF} = \overline{DF}$

4.

$\triangle EDF \cong \triangle GDF$

5.

6.

$\angle BAC = \angle DEC$

7. $\angle ACB = \angle DCE$

$\triangle ACB \cong \triangle DCE$

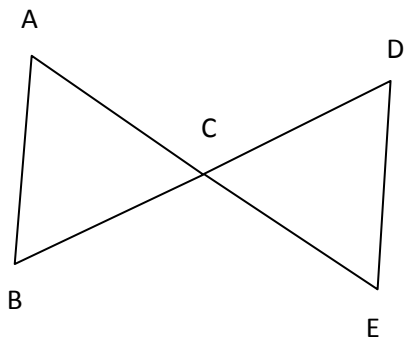
8.

9.

$\overline{AC} = \overline{CE}$

10.

$\angle ABC \cong \angle DCE$



Given :

$\angle BAC = \angle DEC$

