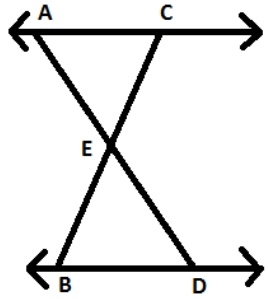
Name: _____ Geometry
Date: _____ Unit 8
Class: _____ HW 8-1

Using the given information and the diagram write a proof that shows the "Prove" statement is true.

1)

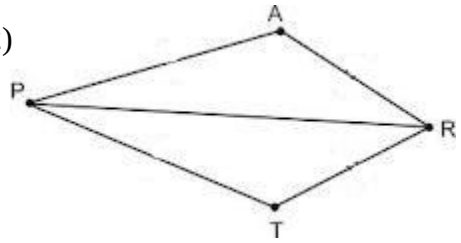


Given: $\overleftrightarrow{AC} \parallel \overleftrightarrow{BD}$

$\overline{AD}$ bisects $\overline{CB}$

Prove: $\triangle$ AEC $\cong$ $\triangle$ DEB

2)

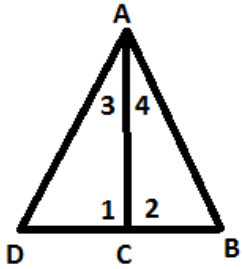


Given: $\overline{PR}$ bisects <ART

$\overline{PR}$ bisects <APT

Prove: $\triangle$ PAR $\cong$ $\triangle$ PTR

3)

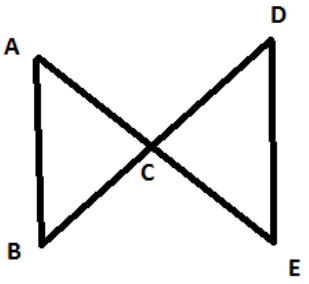


Given: $\triangle$ ABD is isos with <A as vertex

$\overline{DC} \cong \overline{CB}$

Prove: $\Delta ADC \cong \Delta ABC$

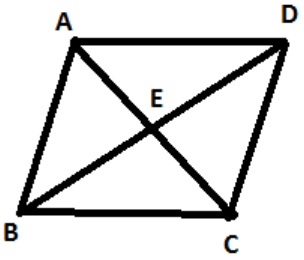
4)



Given: $\overline{BD}$ bisects $\overline{AE}$
$\overline{AE}$ bisects $\overline{BD}$

Prove: $\triangle$ ACB $\cong$ $\triangle$ ECD

5)



Given: ABCD is a rhombus

Prove: $\triangle$ AEB $\cong$ $\triangle$ AED