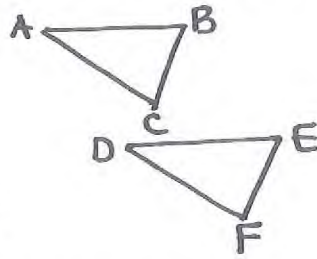


PROOFS PRACTICE

Name _____

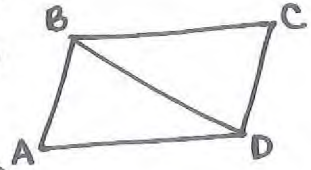
Directions: Complete each proof.

① Given: $AB \cong DE$
 $AC \cong DF$
 $\angle A \cong \angle D$
 Prove: $\triangle ABC \cong \triangle DEF$



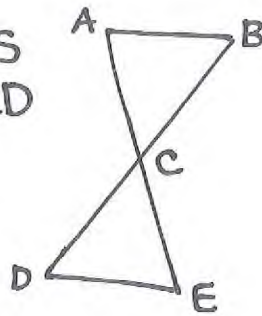
Statements	Reasons
	Given
$AC \cong DF$	
$\angle A \cong \angle D$	
$\triangle ABC \cong \triangle DEF$	

② Given: $AB \cong CD$
 $AD \cong CB$
 Prove: $\triangle ABD \cong \triangle BCD$



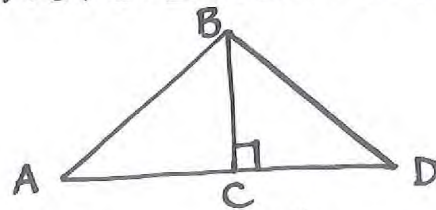
Statements	Reasons
	Given
	Given
	SSS Congruence

③ Given: AE bisects BD; $\angle B \cong \angle D$
 Prove: $\triangle ABC \cong \triangle DEC$



Statements	Reasons
	Definition of Bisect
$\triangle ABC \cong \triangle DEC$	

④ Given: $AB \cong BD$
 Prove: $\triangle ABC \cong \triangle DBC$



Statements	Reasons
	Reflexive Prop

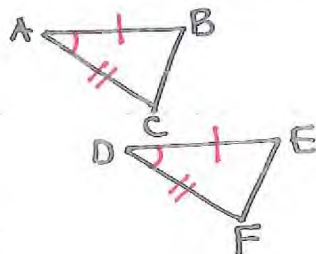
PROOFS PRACTICE

Name Key

#33

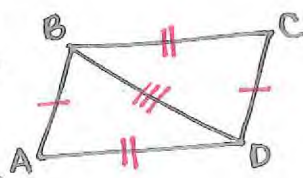
Directions: Complete each proof.

① Given: $AB \cong DE$
 $AC \cong DF$
 $\angle A \cong \angle D$
 Prove: $\triangle ABC \cong \triangle DEF$



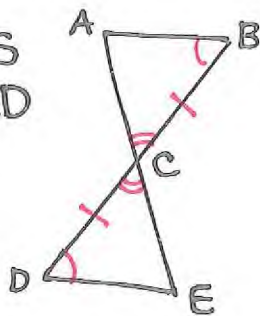
Statements	Reasons
$AB \cong DE$	Given
$AC \cong DF$	Given
$\angle A \cong \angle D$	Given
$\triangle ABC \cong \triangle DEF$	SAS Congruence

② Given: $AB \cong CD$
 $AD \cong CB$
 Prove: $\triangle ABD \cong \triangle BCD$



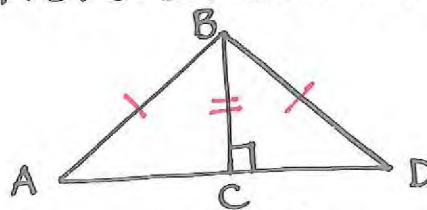
Statements	Reasons
$AB \cong CD$	Given
$AD \cong CB$	Given
$BD \cong BD$	Reflexive Prop
$\triangle ABD \cong \triangle CDB$	SSS Congruence

③ Given: AE bisects BD; $\angle B \cong \angle D$
 Prove: $\triangle ABC \cong \triangle DEC$



Statements	Reasons
AE bisects DB	Given
$\angle B \cong \angle D$	Given
$BC \cong CD$	Definition of Bisect
$\angle ACB \cong \angle ECD$	Vertical Angles Thm
$\triangle ABC \cong \triangle DEC$	ASA Congruence

④ Given: $AB \cong BD$
 Prove: $\triangle ABC \cong \triangle DBC$



Statements	Reasons
$AB \cong BD$	Given
$BC \cong BC$	Reflexive Prop
$\triangle ABC \cong \triangle DBC$	HL Congruence