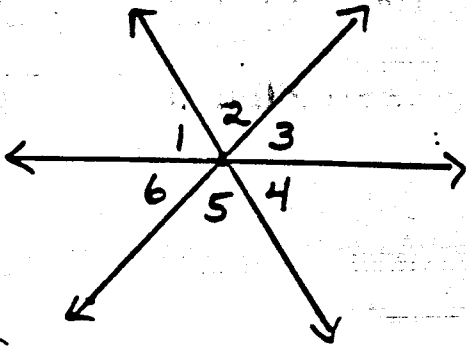


Worksheet 2-6 Proofs #1

Mark your diagrams. Write a 2 column proof on a separate sheet of paper.

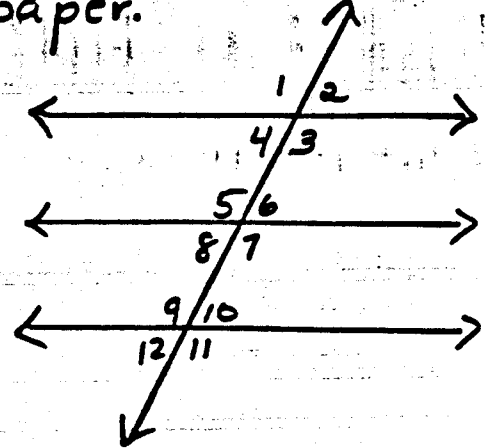
Name _____
Geom., Per. _____

①



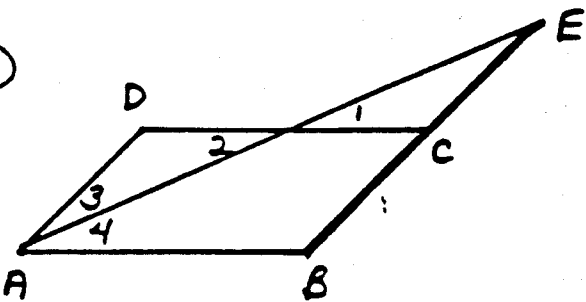
Given: $\angle 3 \cong \angle 5$
Prove: $\angle 6 \cong \angle 2$

②



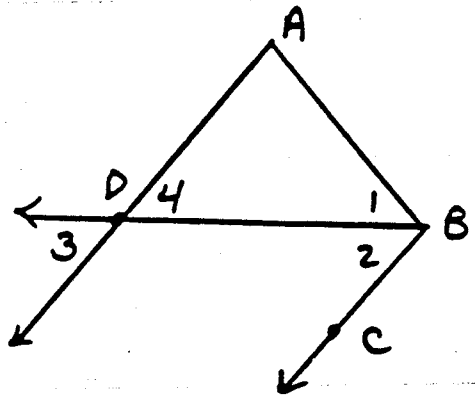
Given: $\angle 3 \cong \angle 5$
 $\angle 7 \cong \angle 9$
Prove: $\angle 1 \cong \angle 11$

③



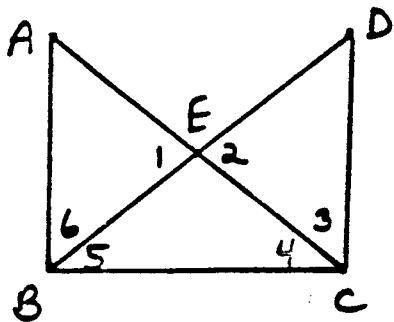
Given: \vec{AE} bisects $\angle DAB$
 $\angle 2 \cong \angle 3$
Prove: $\angle 1 \cong \angle 4$

④

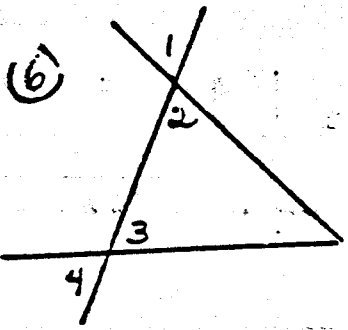


Given: \vec{BD} bisects $\angle ABC$
 $\angle 2 \cong \angle 3$
Prove: $\angle 1 \cong \angle 4$

⑤



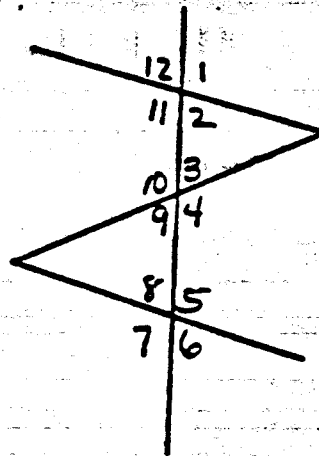
Given: \vec{BE} bisects $\angle ABC$
 \vec{CE} bisects $\angle DCB$
 $\angle 6 \cong \angle 1$
 $\angle 2 \cong \angle 3$
Prove: $\angle 5 \cong \angle 4$



Given: $\angle 2 \cong \angle 3$

Prove: $\angle 1 \cong \angle 4$

(7)



Given:

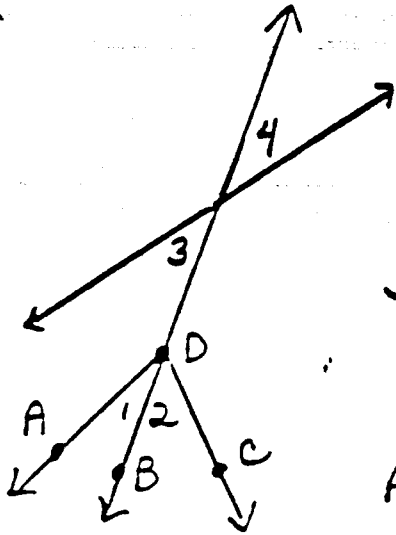
$\angle 2 \cong \angle 4$

$\angle 10 \cong \angle 6$

Prove:

$\angle 12 \cong \angle 8$

(8)



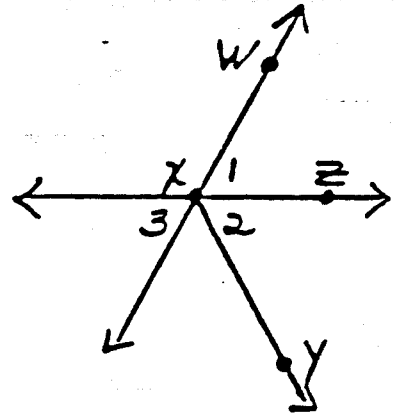
Given: \vec{DB} bisects

$\angle ADC$

$\angle 1 \cong \angle 3$

Prove: $\angle 2 \cong \angle 4$

(9)

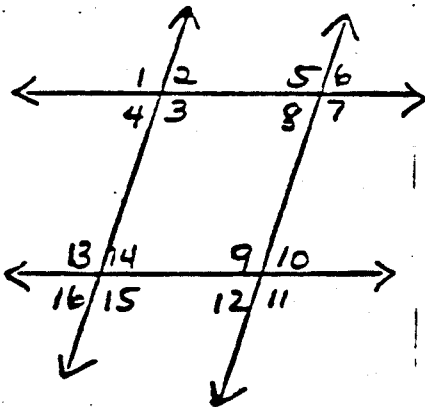


Given: \vec{XZ} bisects

$\angle WXY$

Prove: $\angle 2 \cong \angle 3$

(10)



Given: $\angle 3 \cong \angle 13$

$\angle 15 \cong \angle 9$

Prove: $\angle 1 \cong \angle 11$