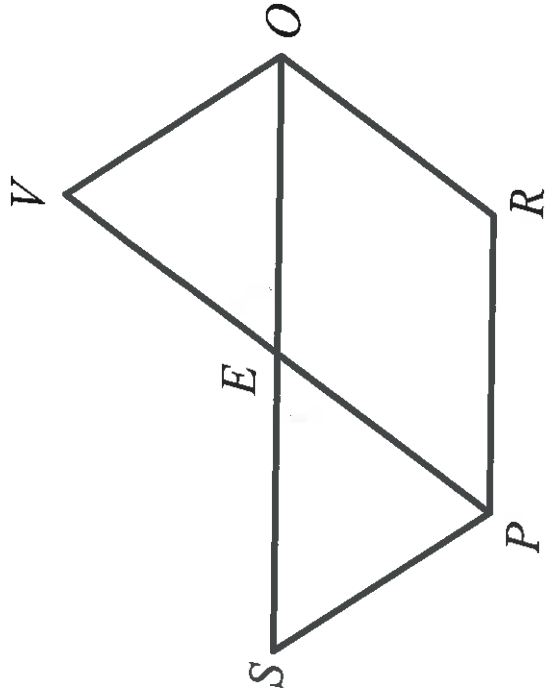


A. Given:  $\overline{PV}$  and  $\overline{SO}$  intersect at E

$$\angle R \cong \angle PEO$$

Prove:  $\angle R \cong \angle SEV$



Statements

Reasons

$\overline{PV}$  and  $\overline{SO}$  intersect at E

$\angle PEO$  vertical to  $\angle SEV$

$\angle PEO \cong \angle SEV$

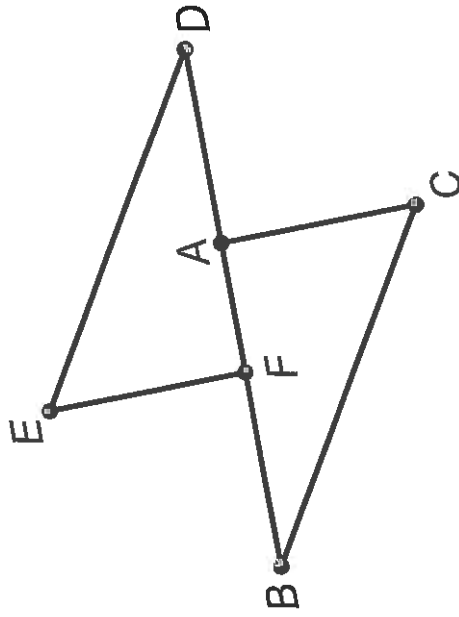
$\angle R \cong \angle PEO$

$\angle R \cong \angle SEV$

B. Given:  $\overline{BFAD}$

$$\angle DAC \cong \angle BAC$$

Prove:  $\overline{CA} \perp \overline{BD}$



Statements

Reasons

$\overline{BFAD}$

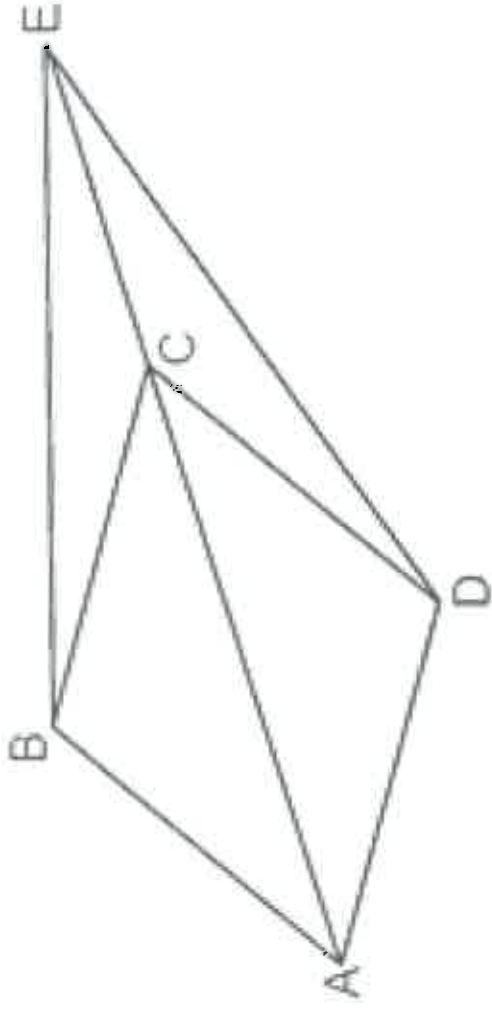
$\angle CAB$  supp to  $\angle CAD$

$\angle DAC \cong \angle BAC$

$\angle CAB$  and  $\angle CAD$  are Rt  $\angle$ s

$\overline{CA} \perp \overline{BD}$

C. Given:  $\overline{AE}$  bisects  $\angle BCD$   
Prove:  $\angle BCE \cong \angle DCE$

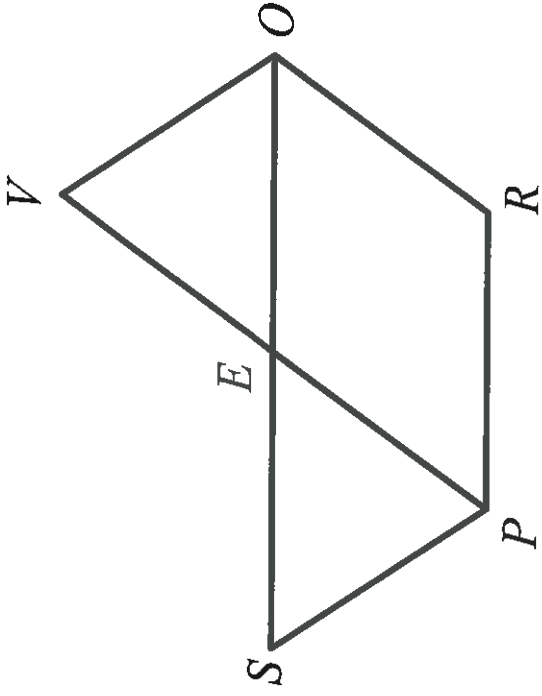


Statements	Reasons
$\overline{AE}$ bisects $\angle BCD$	
$\angle BCA \cong \angle DCA$	
$\angle DCA$ supp to $\angle DCE$	
$\angle BCA$ supp to $\angle BCE$	
$\angle BCE \cong \angle DCE$	

D. Given:  $\overline{PV}$  bisects  $\overline{SO}$  at E

$$\overline{PR} \cong \overline{SE}$$

Prove:  $\overline{PR} \cong \overline{EO}$



Statements

Reasons

$\overline{PV}$  bisects  $\overline{SO}$  at E

E is midpoint of  $\overline{SO}$

$$\overline{SE} \cong \overline{OE}$$

$$\overline{PR} \cong \overline{SE}$$

$$\overline{PR} \cong \overline{EO}$$