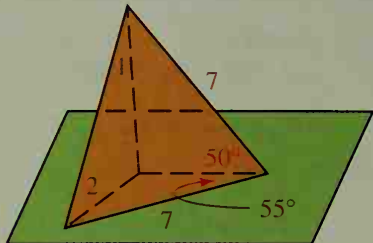
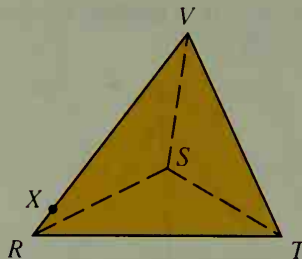


Complete the statements by writing  $<$ ,  $=$ , or  $>$ .

B 9.  $m\angle 1$  ?  $m\angle 2$

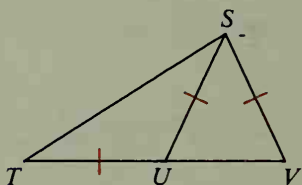


10.  $SR = ST$ ;  $VX = VT$   
 $m\angle RSV$  ?  $m\angle TSV$



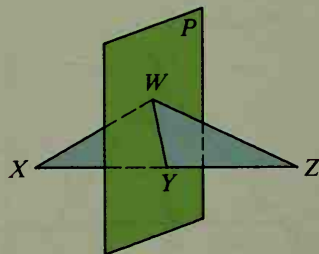
Write proofs in two-column form.

11. Given:  $\overline{TU} \cong \overline{US} \cong \overline{SV}$   
 Prove:  $ST > SV$

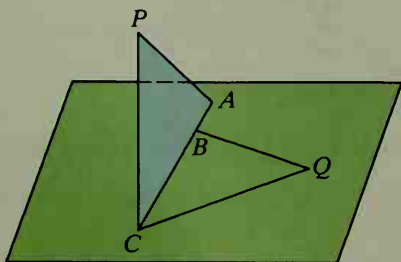


12. Given: Plane  $P$  bisects  $\overline{XZ}$  at  $Y$ ;  
 $WZ > WX$

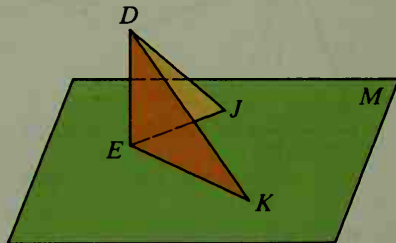
Discover and prove something about the figure.



- C 13. Given:  $\overline{PA} \cong \overline{PC} \cong \overline{QA} \cong \overline{QB}$   
 Prove:  $m\angle PCA < m\angle QCB$



14. Given:  $\overline{DE} \perp$  plane  $M$ ;  $EK > EJ$   
 Prove:  $DK > DJ$   
 (Hint: On  $\overline{EK}$ , take  $Z$  so that  $EZ = EJ$ .)



15. In the three-dimensional figure shown, all the edges *except*  $\overline{VC}$  are congruent. What can you say about the measures of the largest angles of the twelve angles in the figure
- if  $\overline{VC}$  is longer than the other edges?
  - if  $\overline{VC}$  is shorter than the other edges?

