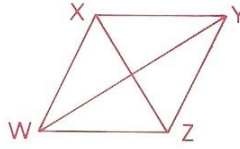
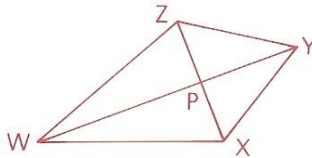


## Homework Day 2

- 13 Given:  $\overline{WY}$  and  $\overline{XZ} \perp$  bis. each other.  
Prove:  $\overline{WX} \cong \overline{XY} \cong \overline{YZ} \cong \overline{ZW}$  (that is,  $WXYZ$  is a rhombus)



- 14 Given:  $\overline{WX} \cong \overline{WZ}$ ,  $\overline{XY} \cong \overline{YZ}$   
(WXYZ is a kite.)  
Prove:  $\triangle WPZ$  is a right  $\triangle$ .

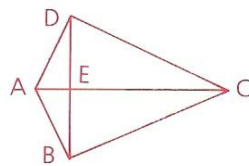


- 16 Prove: The median to the base of an isosceles triangle is also an altitude. (Prove this without using congruent triangles.)

15 Given:  $\angle ADC$  and  $\angle ABC$  are right  $\angle$ s.

$$\overline{AB} \cong \overline{AD}$$

Conclusion:  $\overleftrightarrow{AC} \perp \text{bis. } \overline{BD}$



17 Given: F is the midpt. of  $\overline{BC}$ .

$$\overline{DB} \cong \overline{EC},$$

$$\overline{DB} \perp \overline{DF},$$

$$\overline{EC} \perp \overline{EF}$$

Conclusion:  $\overleftrightarrow{AF} \perp \overleftrightarrow{BC}$

