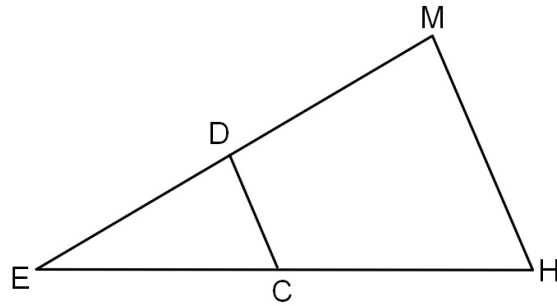


1. Given: $\overline{MH} \parallel \overline{DC}$

a. Why is $\angle EMH \cong \angle EDC$?

b. Why is $\angle EHM \cong \angle ECD$?



c. Name the two triangles in the diagram.

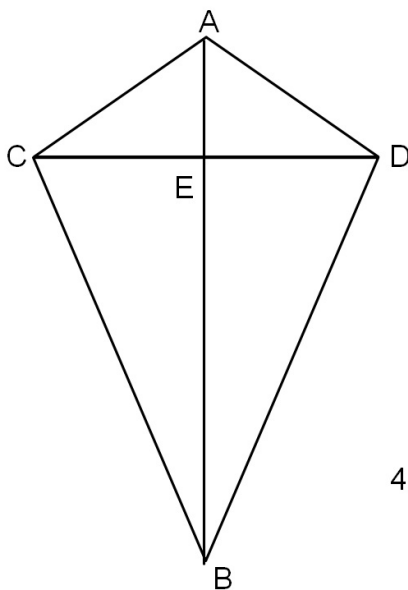
\triangle _____ & \triangle _____

d. What is the third angle in each triangle?

What is true about this third pair of angles?

e. Are these triangles congruent? Explain your answer.

2. The figure below is a kite. Diagonal \overline{AB} is the \perp bisector of diagonal \overline{CD} and also bisects $\angle CAD$ and $\angle CBD$. Write a congruence statement for each pair of triangles in this figure that are congruent and give a reason.



3. What is true about \overline{AC} and \overline{AD} ?

4. What is true about \overline{BC} and \overline{BD} ?