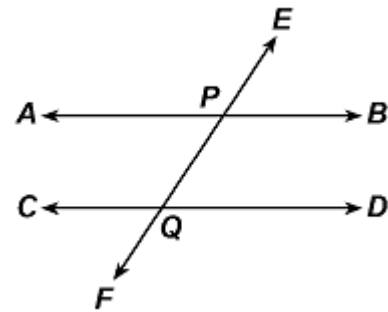


1. Identify a pair of corresponding angles.

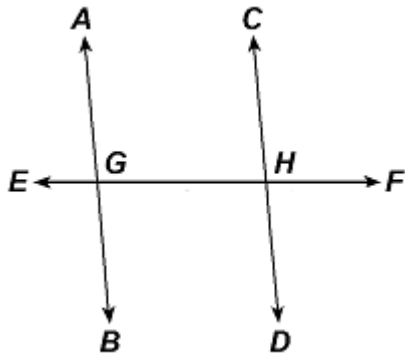
Use the diagram below to answer questions #1 - 4.

2. Identify a pair of alternate exterior angles.

3. If the measure of $\angle APE = 130^\circ$, find the measure of $\angle BPQ$. Explain how you determined your answer.



4. If the measure of $\angle APE = 130^\circ$, find the measure of $\angle EPB$. Explain how you determined your answer.



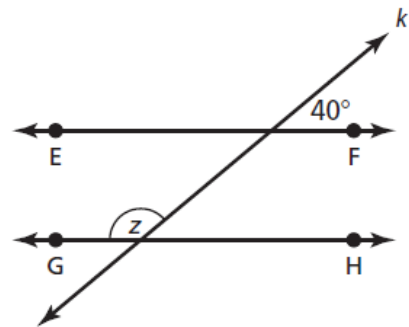
5. In the diagram above, line AB is parallel to line CD. The measure of $\angle BGH = 84^\circ$. Find the measure of the following angles and justify each answer.

$\angle AGE =$ _____ Reason _____

$\angle FHD =$ _____ Reason _____

$\angle GHD =$ _____ Reason _____

6. In the diagram below, $\overleftrightarrow{EF} \parallel \overleftrightarrow{GH}$ and line k intersects both lines.



[not drawn to scale]

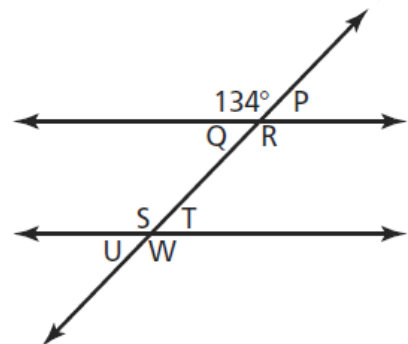
What is the measure of $\angle Z$?

- A 40°
- B 50°
- C 130°
- D 140°

7. In the diagram to the right, parallel lines are intersected by a transversal.

What is the measure of $\angle U$? _____

How did you determine your answer? _____



[not drawn to scale]