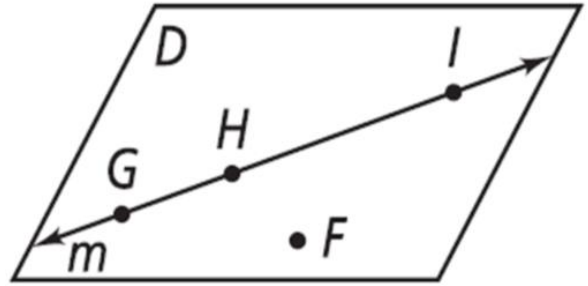
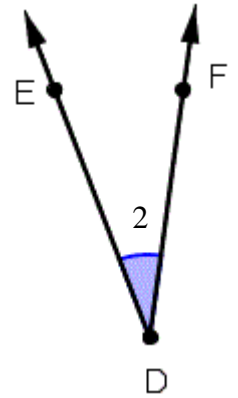


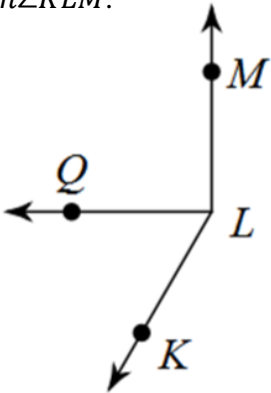
Use the diagram at the right for Questions 1-5.



1. What are **two** other names for \overleftrightarrow{GH} ?
2. What is **one** other way to name Plane D?
3. Name **one** ray on \overleftrightarrow{GH} .
4. Is ray \overrightarrow{GH} the same as ray \overrightarrow{HG} ? Explain your answer.
5. Name **three** collinear points.
6. What are **three** ways to label the angle to the right?



7. $m\angle QLM = 90^\circ$, $m\angle KLM = 2x + 150$, and $m\angle KLQ = x + 60$. Find the value of x , $m\angle KLQ$, and $m\angle KLM$.

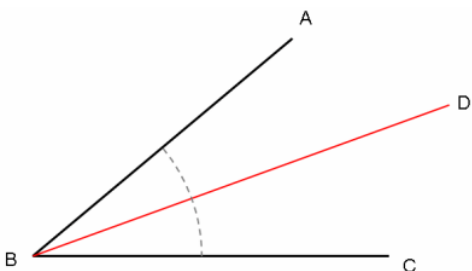


$x =$ _____

$m\angle KLQ =$ _____

$m\angle KLM =$ _____

8. $\angle ABC$ is bisected by ray \overrightarrow{BD} . $m\angle ABD = 15x + 5$ and $m\angle ABC = 50$. Find the value of x , $m\angle ABD$, and $m\angle DBC$.



$x =$ _____

$m\angle ABD =$ _____

$m\angle DBC =$ _____

9. Point E is between points G and O. $\overline{GE} = 2x$ and $\overline{EO} = 29$. If $\overline{GO} = 5x + 2$, find the values of x , \overline{GE} , and \overline{GO} .

$$x = \underline{\hspace{2cm}}$$

$$\overline{GE} = \underline{\hspace{2cm}}$$

$$\overline{GO} = \underline{\hspace{2cm}}$$

10. Find the **distance** between $(7,2)$ and $(12,-7)$. Provide the exact answer (radical answer) and decimal approximation to the nearest tenths place.

$$\textit{Exact Answer} = \underline{\hspace{2cm}}$$

$$\textit{Decimal Approximation} = \underline{\hspace{2cm}}$$

11. Find the **midpoint** between $(19,5)$ and $(-8,0)$.

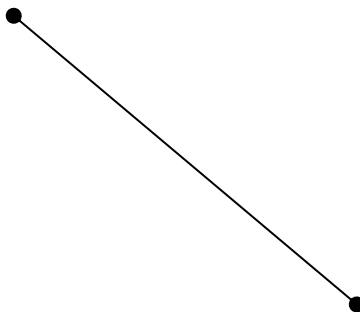
12. Kristin is 6 miles north and 5 miles east of her home. On her drive home, she takes a detour and drives 9 miles south and 10 miles west. How far is she from home? Provide the exact answer (radical answer) and decimal approximation to the nearest tenths place.

$$\textit{Exact Answer} = \underline{\hspace{2cm}}$$

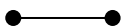
$$\textit{Decimal Approximation} = \underline{\hspace{2cm}}$$

13. \overline{PK} has a midpoint N at $(2, -30)$ and end point P at $(-15, 20)$. Identify the ordered pair of endpoint K.

14. Construct the **bisector** of the segment.



15. Construct a segment **five** times as long as the given segment.



16. Construct the **copy** of the angle below.

