Name _____   **Date** _____
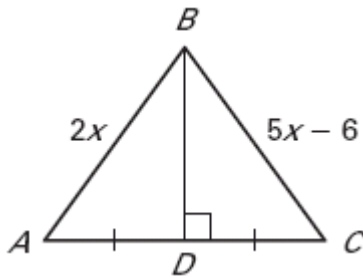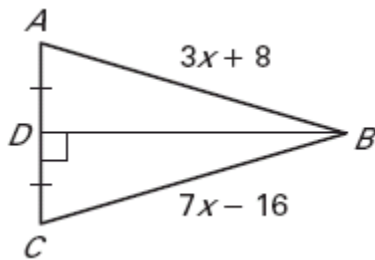
Assignment 41 LESSON 5.2 Show all work.

Find the length of $\overline{AB}$.

1.

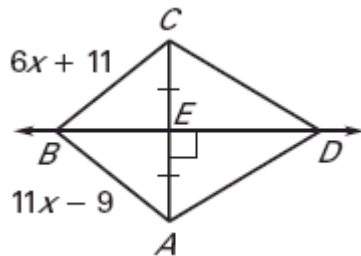
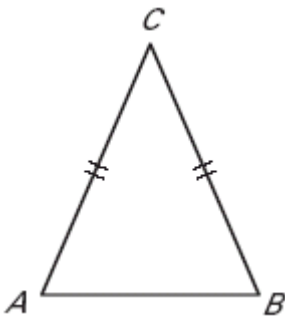$2x$ $5x-6$

2.

$3x+8$

$7x-16$

3.

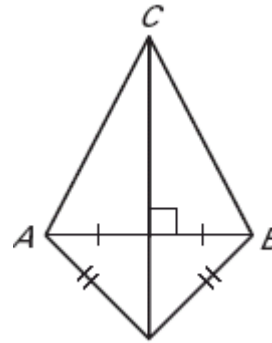$6x+11$

$11x-9$

Tell whether the information in the diagram allows you to conclude that C is on the perpendicular bisector of   .

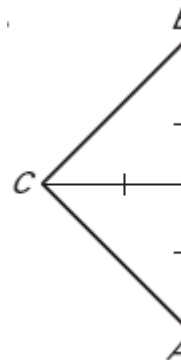**4.**

5.

6.

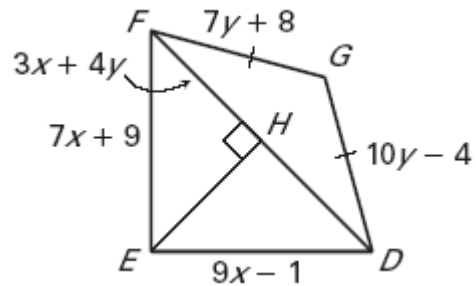**Use the diagram. $\overline{EH}$ is the perpendicular bisector of $\overline{DF}$. Find the indicated measure.**

F $7y+8$ G

$3x+4y$

$7x+9$ H

$10y-4$

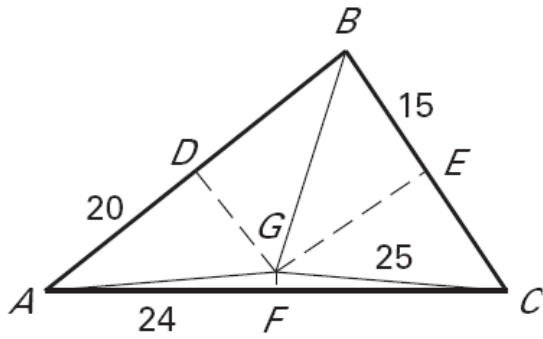E $9x-1$ D

7. Find EF.

8. Find DE.

9. Find FG.

10. Find DG.

11. Find FH.

12. Find DF.

In the diagram, the perpendicular bisectors of △*ABC* meet at point *G* and are shown dashed. Find the indicated measure.

13. Find *AG*.

14. Find *BD*.

15. Find *CF*.

16. Find *BG*.

17. Find *CE*.

18. Find *AC*.