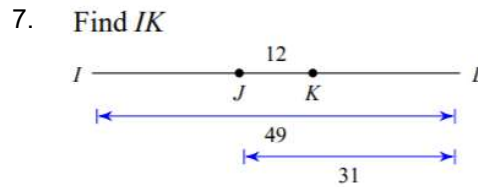
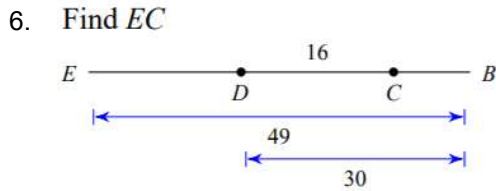
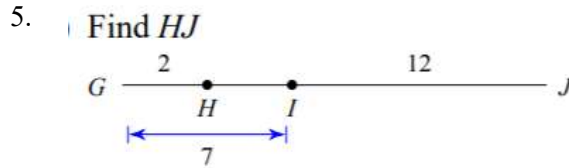
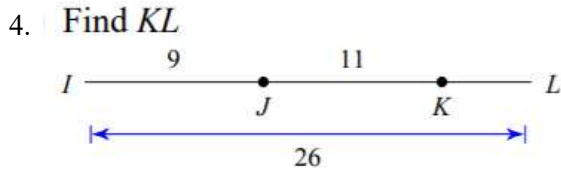
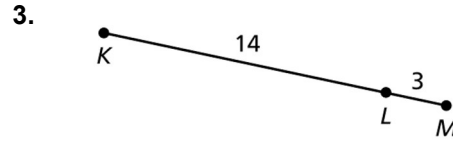
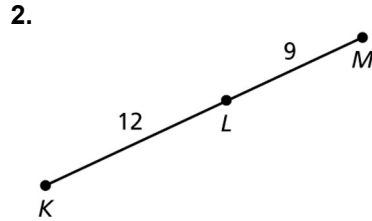
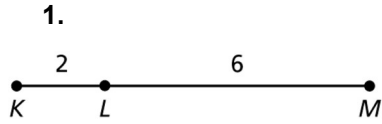




Segment Addition Practice

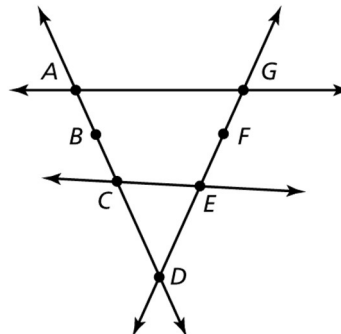
In Exercises 1- 3, find KM .



8. A man is 76 inches tall. The length from his head to his shoulders is 14 inches, and the length from his waist to his shoulders is 30 inches. What is the length from his feet to his waist?

In Exercises 9 – 11, determine whether the statement is true or false. Explain your reasoning.

9. F is between E and G .
10. C is between B and D .
11. A is between B and F .



In Exercises 12 – 15, point B is between A and C on \overline{AC} . Use the information to write an equation in terms of x . Then solve the equation and find AB , BC , and AC .

12. $AB = 13 + 2x$

$$BC = 12$$

$$AC = x + 32$$

13. $AB = 8x + 5$

$$BC = 5x - 9$$

$$AC = 74$$

$$AC = 3x + 22$$

14. $AB = 5x - 6$

$$BC = 10$$

$$AB = 4x + 6$$

15. $BC = 2x - 1$

$$AC = x + 25$$