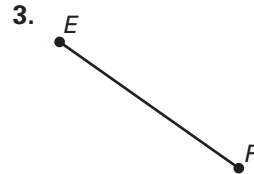


Practice A

For use with pages 17–25

Use a ruler to measure the length of each line segment to the nearest millimeter.



Draw a sketch of the three collinear points. Then write the Segment Addition Postulate for the points.

7. S is between D and P .

8. J is between S and H .

9. C is between Q and R .

10. T is between M and N .

In the diagram of collinear points, $GK = 24$, $HJ = 10$, and $GH = HI = IJ$. Find each length.

11. HI

12. IJ

13. GH



14. JK

15. IG

16. IK

Suppose J is between H and K . Use the Segment Addition Postulate to solve for x . Then find the length of each segment.

17. $HJ = 5x$

18. $HJ = 2x + 5$

19. $HJ = 6x - 5$

$JK = 7x$

$JK = 3x - 7$

$JK = 4x - 6$

$KH = 96$

$KH = 18$

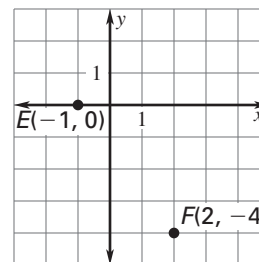
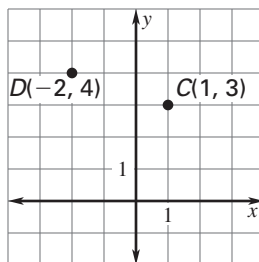
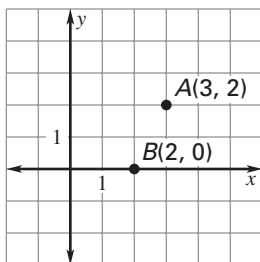
$KH = 129$

Find the distance between each pair of points.

20. $A(3, 2)$, $B(2, 0)$

21. $C(1, 3)$, $D(-2, 4)$

22. $E(-1, 0)$, $F(2, -4)$



Use the Distance Formula to decide whether $\overline{AB} \cong \overline{BC}$.

23. $A(0, 1)$
 $B(2, 4)$
 $C(4, 7)$

24. $A(-3, 1)$
 $B(1, -1)$
 $C(6, -3)$

25. $A(4, 2)$
 $B(-1, -1)$
 $C(-6, -4)$