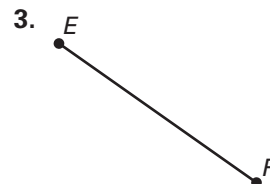


Practice B

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.

4. A is between T and Q.

5. M is between H and A.

6. J is between S and H.

7. A is between L and B.

In Exercises 8–11, use the following information.

S is between T and V. R is between S and T. T is between R and Q. $QV = 18$, $QT = 6$, and $TR = RS = SV$. Make a sketch and answer the following.

8. Find RS.

9. Find QS.

10. Find TS.

11. Find TV.

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

12. $HJ = 2x + 4$

13. $HJ = 5x - 3$

14. $HJ = 2x + \frac{1}{3}$

$JK = 3x + 3$

$JK = 8x - 9$

$JK = 5x + \frac{2}{3}$

$KH = 22$

$KH = 131$

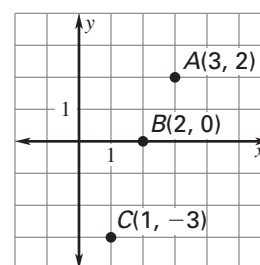
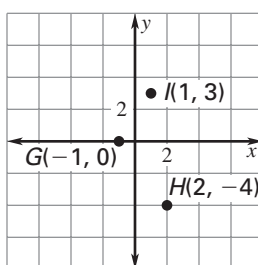
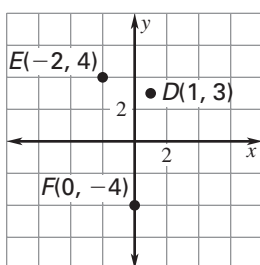
$KH = 12x - 4$

Find the distance between each pair of points.

15. D(1, 3), E(-2, 4), F(0, -4)

16. G(-1, 0), H(2, -4), I(1, 3)

17. A(3, 2), B(2, 0), C(1, -3)



18. **Marathon** The map at the right is being used to plan a 26.3 mile marathon. Coordinates are given in miles. The locations of the participating towns on the map are: Curtis (0, 0), Clearfield (10, 2), Buster (5, 7), and Angel City (1, 4).

Which of the following planned routes is nearest to the 26.3 mile requirement?

- Curtis to Clearfield to Angel City to Curtis
- Curtis to Clearfield to Buster to Angel City to Curtis
- Curtis to Buster to Clearfield to Curtis
- Curtis to Buster to Angel City to Clearfield to Curtis

