LESSON 1.3

NAME _____ DATE _____

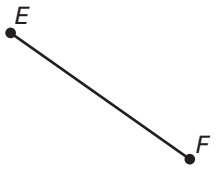
Practice A

For use with pages 17–25

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

1. 

2. 

3. 

4. 

5. 

6. 

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.

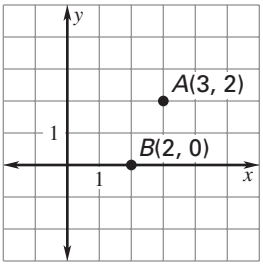
17. $HJ = 5x$
$JK = 7x$
$KH = 96$

18. $HJ = 2x + 5$
$JK = 3x - 7$
$KH = 18$

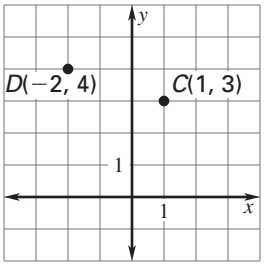
19. $HJ = 6x - 5$
$JK = 4x - 6$
$KH = 129$

Find the distance between each pair of points.

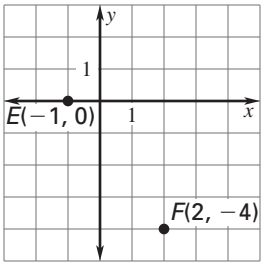
20. $A(3, 2)$, $B(2, 0)$



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

Lesson 1.3