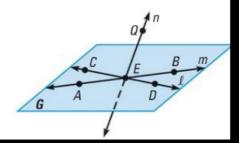
CHAPTER TEST

Use the diagram to decide whether the statement is true or false.

- **1.** Point *A* lies on line *m*.
- **2.** Point D lies on line n.
- **3.** Points B, C, E, and Q are coplanar.
- **4.** Points C, E, and B are collinear.
- **5.** Another name for plane *G* is plane *QEC*.





Find the indicated length.

6. Find *HJ*.



7. Find BC.



8. Find *XZ*.

In Exercises 9–11, find the distance between the two points.

9. T(3, 4) and W(2, 7)

10. C(5, 10) and D(6, -1)

11. M(-8, 0) and N(-1, 3)

$$d = (x_2 - x_1)^{\frac{1}{4}} + (x_2 - x_1)^{\frac{1}{4}} +$$

9=11D

$$d = (x_2 - x_1)^{\frac{1}{2}} + (y_2 - y_1)^{\frac{1}{2}}$$

$$d = ((b - 5)^{\frac{2}{2}} + (-1 - 10)^{\frac{2}{2}}$$

$$d = (1)^{\frac{2}{2}} + (-11)^{\frac{2}{2}}$$

$$d = (1 + 12)^{\frac{1}{2}}$$

$$d = (122)^{\frac{1}{2}}$$

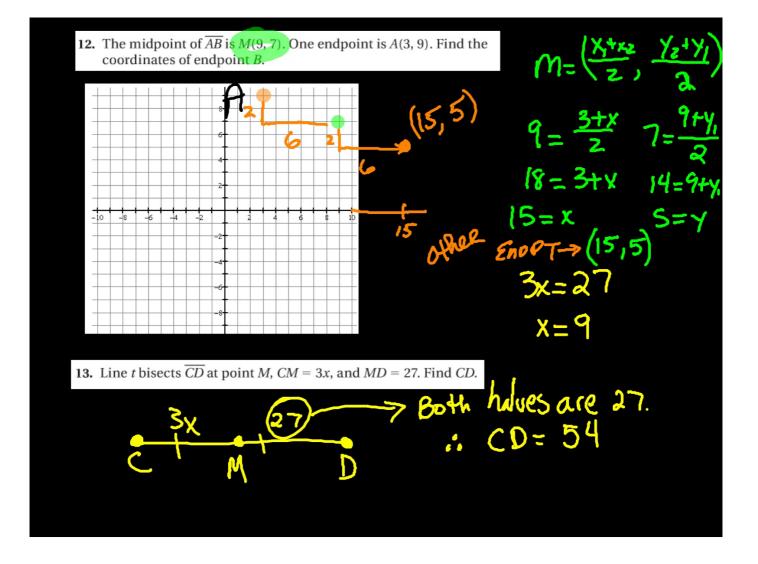
$$d = (x_2 - x_1)^2 (x_2 - x_1)^2$$

$$d = (-1+8)^2 + (3-0)^2$$

$$d = (7)^2 + (3)^2$$

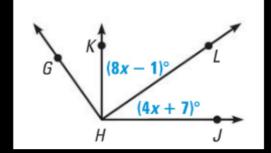
$$d = (49+9)^2$$

$$d = (5-8)^2$$



In Exercises 14 and 15, use the diagram.

- 14. Trace the diagram and extend the rays. Use a protractor to measure $\angle GHJ$. Classify it as acute, obtuse, right, or straight.
- **15.** Given $m \angle KHJ = 90^{\circ}$, find $m \angle LHJ$.



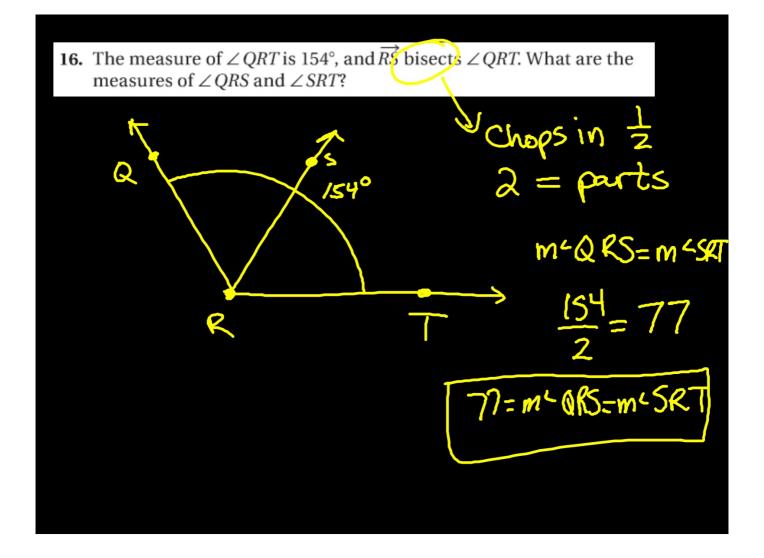


$$mLMJ = 4x+7$$

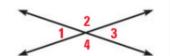
$$= 4(7)+7$$

$$= 28+7$$

$$= 35°$$



In Exercises 17 and 18, use the diagram at the right.



- 17. Name four linear pairs.
- 18. Name two pairs of vertical angles.

19. The measure of an angle is 64°. What is the measure of its complement? What is the measure of its supplement?

Sum of 180

The complement is 26°.

The supplement is 116°.

180 90 - 64 - 64 116 26