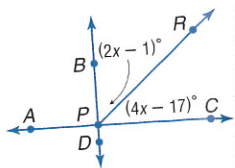


Extra Practice, see pages 754–755.  
Mixed Problem Solving, see page 782.

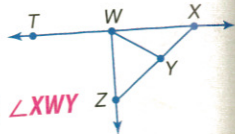
adjacent angles, vertical

pendicular.



6.

at the right.

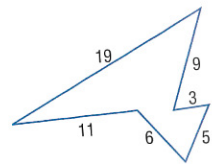


ex W.  $\angle TWY, \angle XWY$   
NZ. 27

11, find  $k$  so that  $\angle ZWX$  is a

gments.

the lengths of its sides.

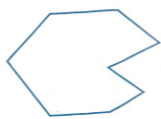


of perimeter

on

ber of sides. Then classify it as *convex*  
Example 1 on page 46.

not a polygon 44.



octagon; concave; irregular

Example 3 on page 47.

$\approx 22.5$  units  
 $\approx 32.3$  units

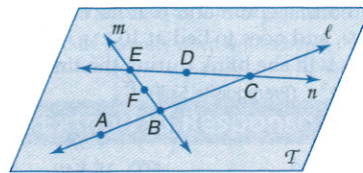
Determine whether each statement is *true* or *false*.

1. A plane contains an infinite number of lines. **true**
2. If two angles are congruent, then their measures are equal. **true**
3. The sum of two complementary angles is 180. **false**
4. Two angles that form a linear pair are supplementary. **true**

Skills and Applications

For Exercises 5–7, refer to the figure at the right.

5. Name the line that contains points B and F. **m**
6. Name a point not contained in lines  $\ell$  or m. **D**
7. Name the intersection of lines  $\ell$  and n. **C**



Find the value of the variable and VW if V is between U and W.

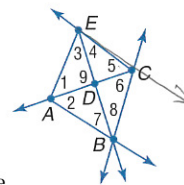
8.  $UV = 2, VW = 3x, UW = 29$   **$x = 9; VW = 27$**
9.  $UV = r, VW = 6r, UW = 42$   **$r = 6; VW = 36$**
10.  $UV = 4p - 3, VW = 5p, UW = 15$   **$p = 2; VW = 10$**
11.  $UV = 3c + 29, VW = -2c - 4, UW = -4c$   **$c = -5; VW = 6$**

Find the distance between each pair of points.

12.  $G(0, 0), H(-3, 4)$  **5**
13.  $N(5, 2), K(-2, 8)$   **$\sqrt{85} \approx 9.2$**
14.  $A(-4, -4), W(-2, 2)$   **$\sqrt{40} \approx 6.3$**

For Exercises 15–18, refer to the figure at the right. 17.  $\angle ABD$  or  $\angle ABE$

15. Name the vertex of  $\angle 6$ . **C**
16. Name the sides of  $\angle 4$ .  **$\overline{EC}, \overline{ED}$**
17. Write another name for  $\angle 7$ .
18. Write another name for  $\angle ADE$ .  **$\angle 9$**



19. **ALGEBRA** The measures of two supplementary angles are  $4r + 7$  and  $r - 2$ . Find the measures of the angles. **147, 33**

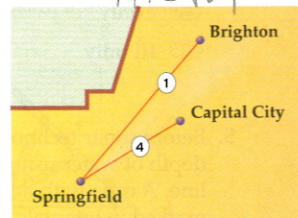
20. Two angles are complementary. One angle measures 26 degrees more than the other. Find the measures of the angles. **32, 58**

Find the perimeter of each polygon.

21. triangle PQR with vertices  $P(-6, -3), Q(1, -1),$  and  $R(1, -5)$   **$\approx 18.6$  units**  $4 + 2\sqrt{53}$
22. pentagon ABCDE with vertices  $A(-6, 2), B(-4, 7), C(0, 4), D(0, 0),$  and  $E(-4, -3)$   **$\approx 24.8$  units**  $14 + 2\sqrt{29}$

**DRIVING** For Exercises 23 and 24, use the following information and the diagram.

The city of Springfield is 5 miles west and 3 miles south of Capital City, while Brighton is 1 mile east and 4 miles north of Capital City. Highway 1 runs straight between Brighton and Springfield; Highway 4 connects Springfield and Capital City.



23. Find the length of Highway 1.  **$\approx 9.2$  mi**  $\sqrt{34}$
24. How long is Highway 4?  **$\approx 5.8$  mi**  $\sqrt{34}$

25. **STANDARDIZED TEST PRACTICE** Which of the following figures is *not* a polygon? **C**



Assessment Options

**Vocabulary Test** A vocabulary test/review for Chapter 1 can be found on p. 50 of the *Chapter 1 Resource Masters*.

**Chapter Tests** There are six Chapter 1 Tests and an Open-Ended Assessment task available in the *Chapter 1 Resource Masters*.

Chapter 1 Tests			
Form	Type	Level	Pages
1	MC	basic	37–38
2A	MC	average	39–40
2B	MC	average	41–42
2C	FR	average	43–44
2D	FR	average	45–46
3	FR	advanced	47–48

MC = multiple-choice questions  
FR = free-response questions

Open-Ended Assessment

Performance tasks for Chapter 1 can be found on p. 49 of the *Chapter 1 Resource Masters*. A sample scoring rubric for these tasks appears on p. A25.



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