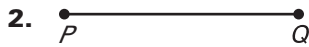
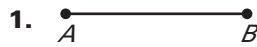


CHAPTER  
4**Cumulative Review***For use after Chapter 4***Measure the length of the segment to the nearest tenth of a centimeter.***(Lesson 1.2)*

3. Find the coordinates of the midpoint of the segment with endpoints  $S(3, -1)$  and  $T(-5, 7)$ . *(Lesson 1.3)*

**Plot the points in a coordinate plane and draw  $\angle ABC$ . Classify the angle. Then give the coordinates of a point that lies in the interior of the angle.***(Lesson 1.4)*

4.  $A(3, 1), B(-1, 5), C(-2, 0)$                       5.  $A(-2, -3), B(1, -3), C(4, 1)$

6. **Patio** A circular patio has a diameter of 24 feet. You are putting bricks down to cover the region. You are also placing edging around the outside of the patio.

*(Lesson 1.7)*

- a. How much area do you need to cover with bricks?  
b. How many feet of edging are needed to enclose the patio?

**Describe the pattern in the numbers. Give the next number in the pattern.***(Lesson 2.1)*

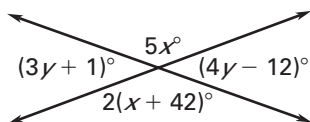
7.  $-3, 3, 9, 15, \dots$                       8.  $7, 70, 700, 7000, \dots$                       9.  $21, 12, 3, -6, \dots$

**Rewrite the conditional statement in if-then-form.** *(Lesson 2.2)*

10. The measure of a right angle is  $90^\circ$ .  
11. Football players are athletes.  
12. All high school students take three math courses.  
13. **Perimeter** The formula for the perimeter  $P$  of a rectangle is  $P = 2\ell + 2w$  where  $\ell$  is the length and  $w$  is the width. Solve the formula for  $w$ . Then find the width of a rectangular table top whose perimeter is 25 feet and whose length is 7 feet.

*(Lesson 2.5)*

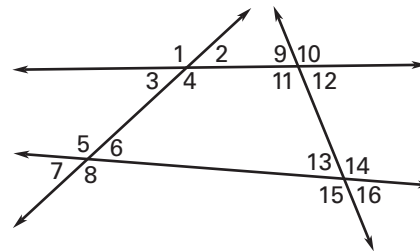
14. Find the measure of each angle in the diagram. *(Lesson 2.7)*



**CHAPTER**  
**4**
**Cumulative Review** *continued*
*For use after Chapter 4*

Classify the angle pair as *corresponding*, *alternate interior*, *alternate exterior*, or *consecutive interior angles*. (Lesson 3.1)

15.  $\angle 11$  and  $\angle 14$                       16.  $\angle 1$  and  $\angle 8$   
 17.  $\angle 4$  and  $\angle 6$                         18.  $\angle 6$  and  $\angle 14$   
 19.  $\angle 4$  and  $\angle 5$                         20.  $\angle 10$  and  $\angle 15$



Tell whether the lines through the given points are *parallel*, *perpendicular*, or *neither*. (Lesson 3.4)

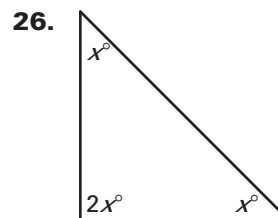
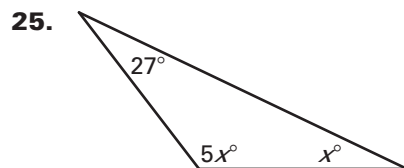
21. Line 1:  $(-2, 1)$  and  $(3, 7)$                       22. Line 1:  $(-5, -3)$  and  $(0, 7)$   
 Line 2:  $(4, 0)$  and  $(11, -6)$                       Line 2:  $(7, -4)$  and  $(10, 2)$

In Exercises 23 and 24, use the following information.

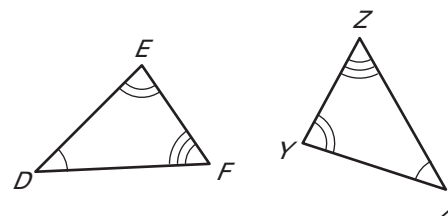
**Earnings** You earn \$320 each week plus a commission of an additional \$25 for each new employee you recruit for the company during that week. (Lesson 3.5)

23. Write an equation to model your weekly earnings.  
 24. What are your weekly earnings if you recruit 3 new employees?

Find the value of  $x$ . Then classify the triangle by its angles. (Lesson 4.1)



Tell whether the angles or sides are *corresponding angles*, *corresponding sides*, or *neither*. (Lesson 4.3)



27.  $\angle F$  and  $\angle Z$                       28.  $\overline{DF}$  and  $\overline{YX}$                       29.  $\overline{FE}$  and  $\overline{YZ}$   
 30. Determine which method, ASA, AAS, or SSS, can be used to prove the triangles are congruent. Then write a congruence statement. (Lesson 4.5)

