CHAPTER 3

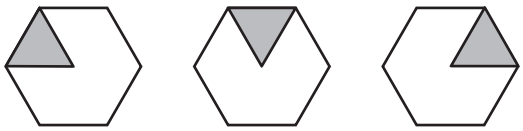
NAME _____ DATE _____

Cumulative Review

For use after Chapters 1–3

Sketch the next figure you expect in the pattern. (Lesson 1.1)

1.



2.

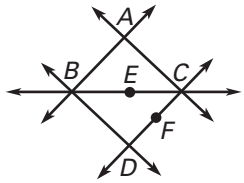
In Exercise 3–6, use the diagram at the right. (Lessons 1.3 and 1.4)

3. Name a point that is collinear with D and F.

4. Name a point that is not collinear with E and C.

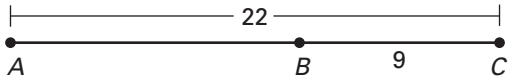
5. Name the intersection of $\overleftrightarrow{BC}$ and $\overleftrightarrow{AC}$.

6. Name the intersection of $\overleftrightarrow{EC}$ and $\overleftrightarrow{BD}$.



Find the segment length. (Lesson 1.5)

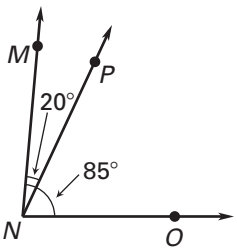
7. Find AB.



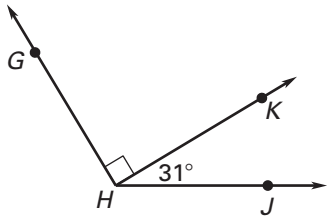
8. Find EG.

Find the angle measure. (Lesson 1.6)

9. Find $m\angle PNO$.

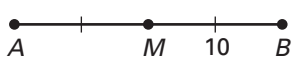


10. Find $m\angle GHJ$.

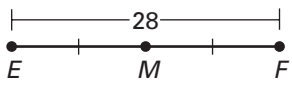


***M* is the midpoint of the segment. Find the segment length. (Lesson 2.1)**

11. Find AM.



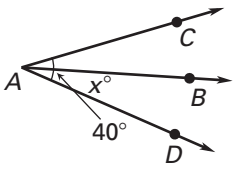
12. Find MF.



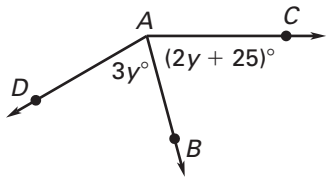
13. Find GH.

***$\overrightarrow{AB}$* bisects $\angle CAD$. Find the value of the variable. (Lesson 2.2)**

14.



15.



Review and Assess

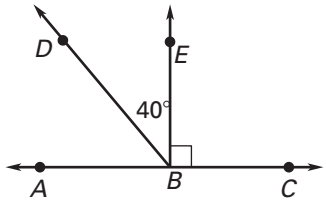
CHAPTER 3 CONTINUED

NAME _____ DATE _____

Cumulative Review

For use after Chapters 1–3

In Exercises 16–18, use the diagram at the right. (Lesson 2.3)



16. Find $m\angle ABD$.

17. Name a straight angle.

18. Name an angle that is a supplement of $\angle ABD$.

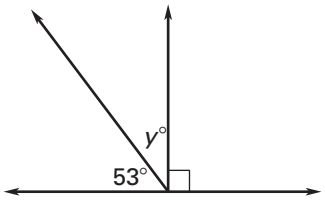
Rewrite the statement as an if-then statement. Then underline the hypothesis and circle the conclusion. (Lesson 2.5)

19. All of the dancers in that troupe have been dancing for at least ten years.

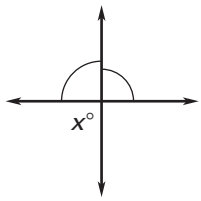
20. Two angles are complementary if the sum of their measure is 90°.

Find the value of the variable. (Lesson 3.2)

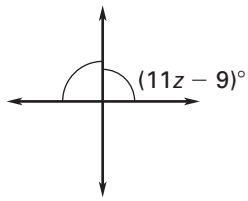
21.



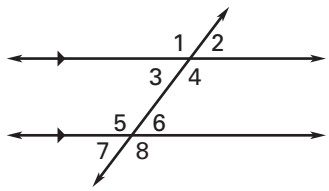
22.



23.



Use the diagram at the right to describe the relationship between the angles. (Lesson 3.3)



24. $\angle 2$ and $\angle 6$ **25.** $\angle 4$ and $\angle 6$

26. $\angle 3$ and $\angle 6$ **27.** $\angle 1$ and $\angle 8$

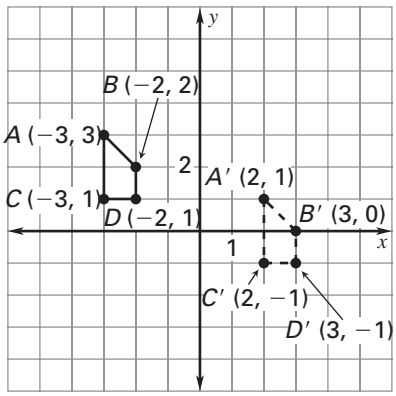
Use the diagram above to determine the measure of the angle given that $m\angle 1 = 110°$. (Lesson 3.4)

28. $m\angle 5$ **29.** $m\angle 4$

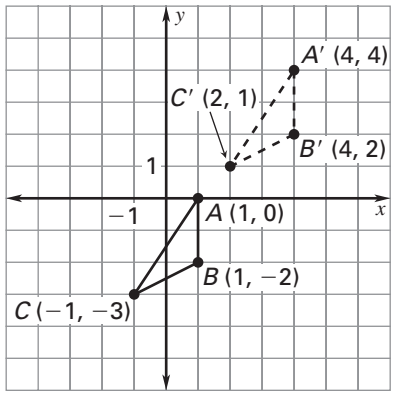
30. $m\angle 6$ **31.** $m\angle 7$

Describe the translation using coordinate notation. (Lesson 3.7)

32.



33.



Review and Assess