CHAPTER 8

READY TO GO ON?

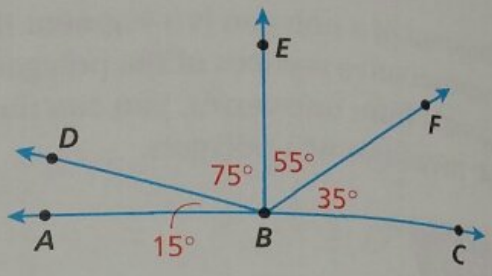
SECTION 8A

Quiz for Lessons 8-1 Through 8-5

8-1 Points, Lines, Planes, and Angles

Use the diagram to name each figure.

1. two pairs of complementary angles
2. three pairs of supplementary angles
3. two right angles $\angle ABE$, $\angle EBC$

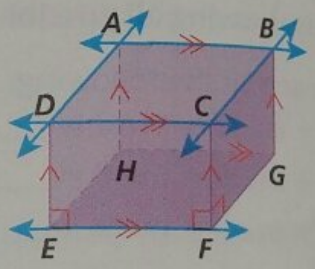


8-2 Geometric Relationships

4–6. Possible answers given.

Identify two figures that have the given relationship.

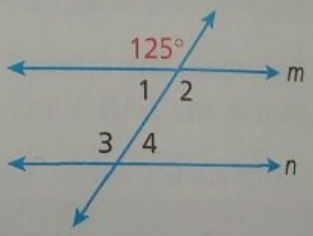
4. skew lines $\overleftrightarrow{EF}$ and $\overleftrightarrow{AD}$
5. parallel planes plane $ABC \parallel$ plane HGF
6. perpendicular planes plane $ABC \perp$ plane CDE



8-3 Angle Relationships

In the figure, line $m \parallel$ line n. Find the measure of each angle.

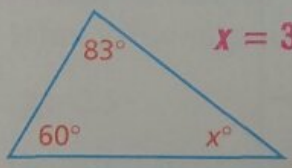
7. $\angle 1$ 55°
8. $\angle 2$ 125°
9. $\angle 3$ 125°



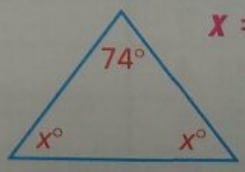
8-4 Triangles

Find x in each triangle.

10. $x = 37$



11. $x = 53$



12. $\overline{PR}$ is a diagonal of rectangle $PQRS$. PQ is 28 ft and PR is 35 ft. Find the length of $\overline{QR}$. 21 ft

8-5 Coordinate Geometry

Graph the quadrilaterals with the given vertices. Give all of the names that apply to each quadrilateral.

13. $A(-2, 1)$, $B(3, 2)$, $C(2, 0)$, $D(-3, -1)$ parallelogram

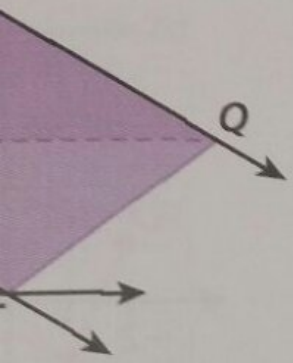
14. $P(-3, 4)$, $Q(2, 4)$, $R(2, -1)$, $S(-3, -1)$ parallelogram, rhombus, rectangle, square

Find the coordinates of the missing vertex.

15. square $ABCD$ with $A(-1, 1)$, $B(2, 1)$, and $C(2, -2)$ $D(-1, -2)$
16. parallelogram $PQRS$ with $P(3, 3)$, $Q(4, 2)$, and $R(2, -2)$ $S(1, -1)$

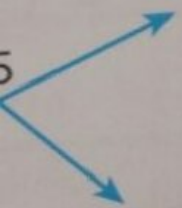
MG3.6

appear



of 6MG2.2

measure.



5. ∠LKM and ∠JKM

Answers

6. $\overleftrightarrow{PQ}$ and $\overleftrightarrow{SV}$
7. plane *SVR* ⊥ plane *RVT*
8. plane *PQR* ∥ plane *STV*
9. 66°
10. 114°
11. 66°
12. 66°
13. 114°
14. $m = 26$
15. 13 cm