Name $\qquad$ Date $\qquad$
Lesson 8.4
Practice B
For use with pages 533-540
For any rhombus $A B C D$, decide whether the statement is always or sometimes true. Draw a diagram and explain your reasoning.

1. $\angle A B C \cong \angle C D A$
2. $\overline{C A} \cong \overline{D B}$

For any rectangle $F G H J$, decide whether the statement is always or sometimes true. Draw a diagram and explain your reasoning.
3. $\angle F \cong \angle H$
4. $\overline{G H} \cong \overline{H J}$

Classify the quadrilateral. Explain your reasoning.
5.

6.


Classify the special quadrilateral. Explain your reasoning. Then find the values of $\boldsymbol{x}$ and $y$.
7.

8.


Name each quadrilateral-parallelogram, rectangle, rhombus, and square-for which the statement is true.
9. It is equilateral.
10. The diagonals are congruent.
11. It can contain obtuse angles.
12. It contains no acute angles.

The diagonals of rhombus $P Q R S$ intersect at $T$. Given that $m \angle R P S=30^{\circ}$ and $R T=6$, find the indicated measure.
13. $m \angle Q P R$
14. $m \angle Q T P$
15. $R P$

16. $Q T$

The diagonals of rectangle $W X Y Z$ intersect at $P$. Given that $m \angle Y X Z=50^{\circ}$ and $X Z=12$, find the indicated measure.
17. $m \angle W X Z$
18. $m \angle W P X$
19. $P Y$

20. $W X$

The diagonals of square $\operatorname{DEFG}$ intersect at $\boldsymbol{H}$. Given that $E H=5$, find the indicated measure.
21. $m \angle G H F$
22. $m \angle D G H$
23. $H F$

24. $D E$

