Name

5.

7.

Date\_\_\_\_\_

LESSON 8.4 **Practice B** For use with pages 533–540

For any rhombus *ABCD*, decide whether the statement is *always* or *sometimes* true. Draw a diagram and *explain* your reasoning.

**1.**  $\angle ABC \cong \angle CDA$  **2.**  $\overline{CA} \cong \overline{DB}$ 

For any rectangle *FGHJ*, decide whether the statement is *always* or *sometimes* true. Draw a diagram and *explain* your reasoning.

**3.**  $\angle F \cong \angle H$  **4.**  $\overline{GH} \cong \overline{HJ}$ 

Classify the quadrilateral. Explain your reasoning.





Classify the special quadrilateral. *Explain* your reasoning. Then find the values of x and y.



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 *PQRS* intersect at *T*. Given that  $m \angle RPS = 30^{\circ}$  and RT = 6, find the indicated measure.

13.  $m \angle OPR$ 

**14.** *m*∠*QTP* 

15. RP

**16.** *QT* 



**18.** *m*∠*WPX* 

**19.** *PY* 

20. WX

The diagonals of square *DEFG* intersect at *H*. Given that *EH* = 5, find the indicated measure. 21. m / GHF r

<b>21.</b> <i>m</i> <b>Z</b> 0111 <sup>7</sup>	DE
<b>22.</b> <i>m</i> ∠ <i>DGH</i>	5
<b>23.</b> <i>HF</i>	H
	G F

**24.** *DE* 



റ

-30°

R

6

s

