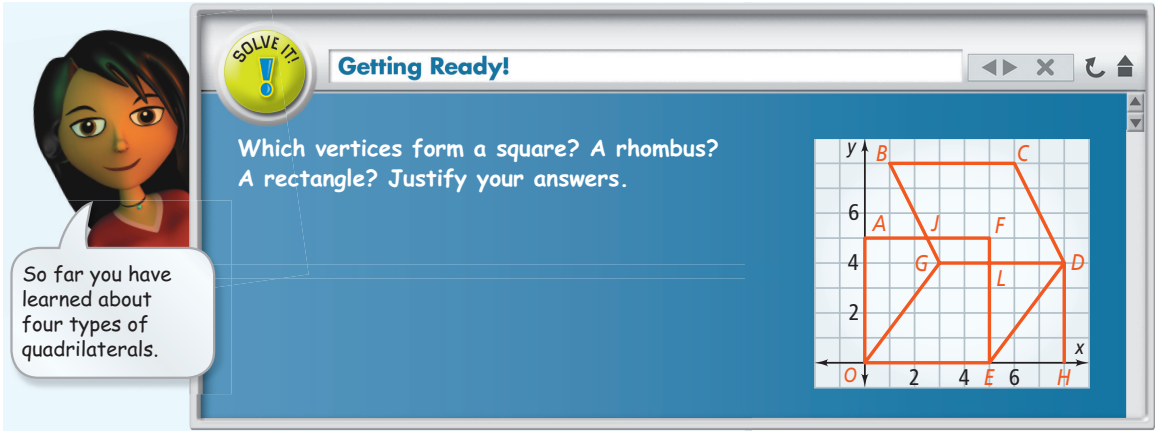
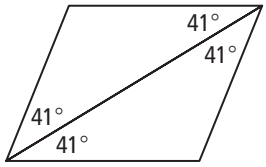
6-5 Solve It!

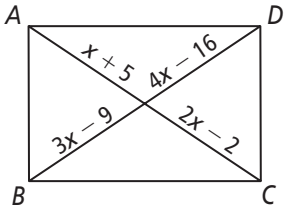


6-5 Lesson Quiz

1. Can you conclude that the parallelogram is a rhombus, a rectangle, or a square? Explain.



2. For what value of x is parallelogram $ABCD$ a rectangle?



3. Do you UNDERSTAND? Given $WRST$ is a parallelogram and $\overline{WS} \cong \overline{RT}$, how can you classify $WRST$? Explain.

Answers

Solve It!

square: $OEFA$, because it has 4 rt. $\measuredangle$ and 4 $\cong$ sides; rhombus: $OEDG$, because it has 4 $\cong$ sides of length 5; rectangle: $EHDL$, because it has 4 rt. $\measuredangle$ and opp. sides $\cong$

Lesson Quiz

1. rhombus; The diagonal bisects a pair of opposite angles, so the figure is a rhombus by Theorem 6-17. Also, by ASA and the converse of the Isosceles Triangle Theorem, all four sides are congruent.

2. 7

3. Rectangle; $\overline{WS}$ and $\overline{RT}$ are congruent diagonals, and by Theorem 6-18, $WRST$ is a rectangle.