

Lesson 10-6

Example 1 Classify Quadrilaterals

Classify the quadrilateral using the name that *best* describes it.



The quadrilateral has opposite sides parallel and opposite sides congruent. It is a parallelogram.

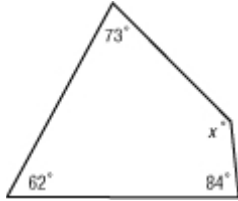
Example 2 Classify Quadrilaterals

Classify the quadrilateral using the name that *best* describes it.



The quadrilateral has one pair of parallel sides. It is a trapezoid.

Example 3 Find a Missing Measure
ALGEBRA Find the value of x in the quadrilateral shown.



Write and solve an equation.

Words The sum of the measures is 360° .

Variable Let x represent the missing measure.

Equation $84 + 62 + 73 + x = 360$

$$\begin{array}{rcl} 84 + 62 + 73 + x & = & 360 & \text{Write the equation.} \\ 219 + x & = & 360 & \text{Simplify.} \\ \underline{-219} & & \underline{-219} & \text{Subtract 219 from each side.} \\ x & = & 141 & \end{array}$$

So, the missing angle measure is 141° .