

# Challenge Problems

## 9.2

NAME \_\_\_\_\_

Module 9 Characteristics of Geometric Shapes  
Lesson 2 Quadrilaterals

### Set 1

1 Mac says that drawing a quadrilateral with three right angles and without it being a rectangle is impossible. Do you agree? Explain.

2 Is it possible for a quadrilateral to have four acute angles? Explain why or why not.

3 Use what you know about alternate interior angles to explain why the value of  $x$  in the parallelogram is  $100^\circ$ .



# Additional Work Area