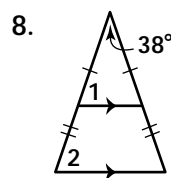
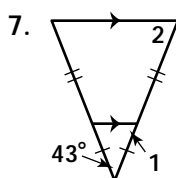
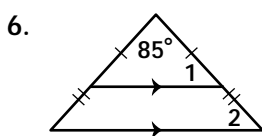
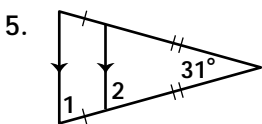
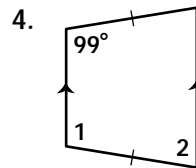
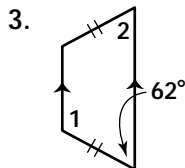
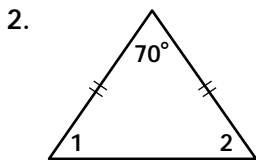
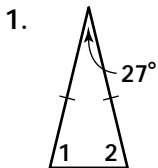


# Practice 9-4

## Example Exercises

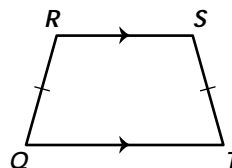
### Example 1

Find the measures of  $\angle 1$  and  $\angle 2$ .



### Example 2

9. Complete the following two-column proof of Theorem 9-17:  
The diagonals of an isosceles trapezoid are congruent.



Given: Isosceles trapezoid  $QRST$  with  $\overline{QR} \cong \overline{ST}$ .

Prove:  $\overline{QS} \cong \overline{RT}$

| Statements                             | Reasons                             |
|--|-------------------------------------|
| 1. $\overline{QR} \cong \overline{ST}$ | a.                                  |
| 2. $\angle RQT \cong \angle STQ$       | b.                                  |
| c. $\overline{QT} \cong \overline{QT}$ | 3. Reflexive Property of Congruence |
| 4. $\triangle RQT \cong \triangle STQ$ | d.                                  |
| e.                                     | 5. CPCTC                            |

### Example 3

Find the height of each isosceles trapezoid.

