Unit 05 - Section 06

1 Give the most descriptive name for

a A quadrilateral whose consecutive sides measure 15, 18, 15, and 18

b A quadrilateral whose consecutive sides measure 15, 18, 18, and 15

c A quadrilateral with consecutive angles of 30°, 150°, 110°, and 70°

d A quadrilateral whose diagonals are perpendicular and congruent and bisect each other

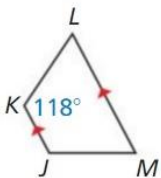**e** A quadrilateral whose congruent diagonals bisect each other and bisect the angles

In Exercises 3–6, show that the quadrilateral with the given vertices is a trapezoid. Then decide whether it is isosceles. *(See Example 1.)*
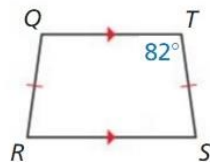
3. $W(1, 4)$, $X(1, 8)$, $Y(-3, 9)$, $Z(-3, 3)$

6. $H(1, 9)$, $J(4, 2)$, $K(5, 2)$, $L(8, 9)$

In Exercises 7 and 8, find the measure of each angle in the isosceles trapezoid. *(See Example 2.)*
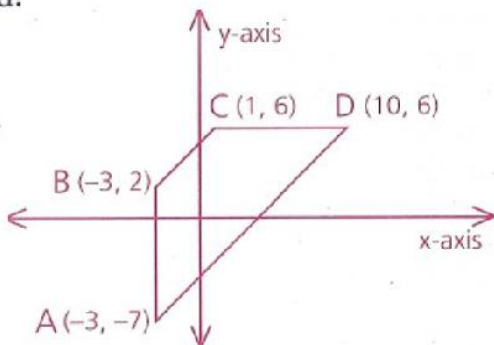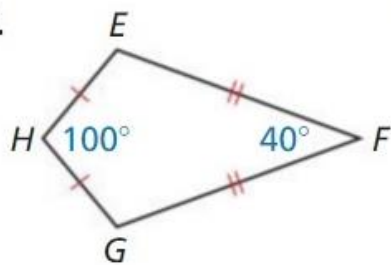
7.

8.
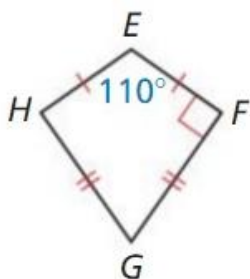

11 Show that ABCD is an isosceles trapezoid.

In Exercises 15–18, find $m\angle G$. *(See Example 5.)*

15.

18.

30 Given: Kite KITE

Find: The three possible values of the perimeter of KITE