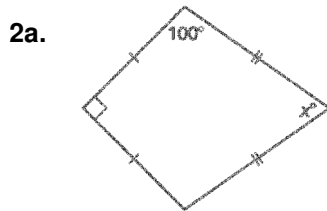
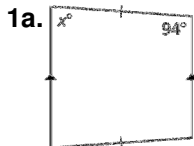


# 7.5

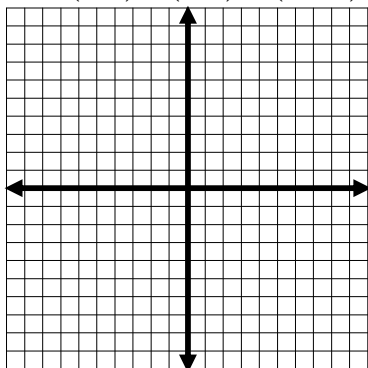
## Practice A

In Exercises 1 and 2, Give the specific name of the quadrilateral and find the value of  $x$ .

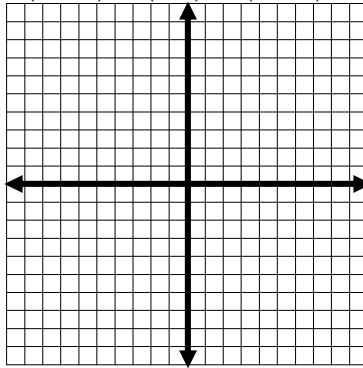


In Exercises 3 and 4, find the length of the midsegment of the trapezoid with the given vertices.

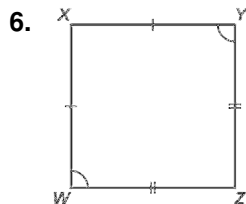
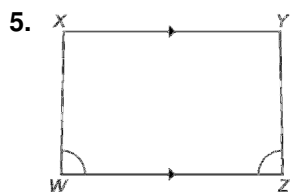
3.  $A(0, 3), B(4, 5), C(4, -2), D(0, -2)$



4.  $E(-3, 3), F(1, 3), G(3, -3), H(-5, -3)$



In Exercises 5 and 6, give the most specific name for the quadrilateral. Explain your reasoning.



7. Describe and correct the error in finding the most specific name for the quadrilateral.

✗

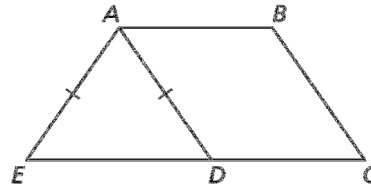
The quadrilateral has two pairs of consecutive congruent sides and the diagonals are perpendicular. So, the quadrilateral is a kite.

8. Use the diagram to write a two-column proof.

**Given:**  $ABCD$  is a parallelogram.

$$\overline{AE} \cong \overline{AD}$$

**Prove:**  $ABCE$  is an isosceles trapezoid.

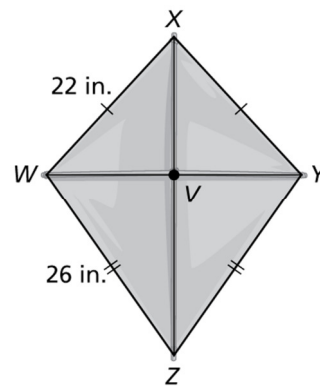


9. The figure shows a window in the shape of a kite.

a. Find  $m\angle XVW$ .

b. Find  $\overline{XY}$ .

c. Which angle is congruent to  $\angle XYZ$ ?



**Part B**

In Exercises 3 and 4, find the value of  $x$ .

