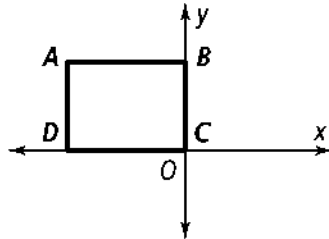**6-8**

Practice

Form G

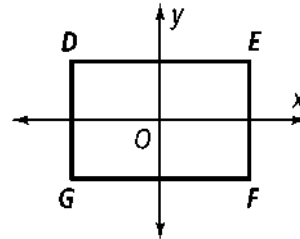Applying Coordinate Geometry

Algebra What are the coordinates of the vertices of each figure?
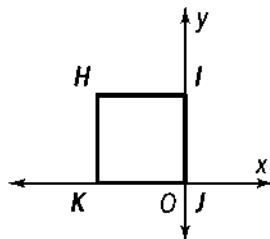
1. rectangle with
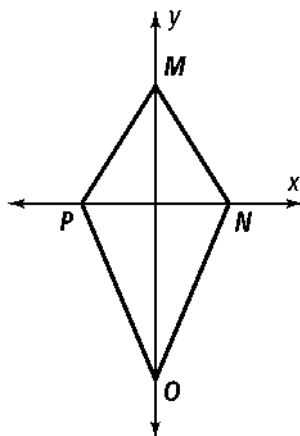base b and height h

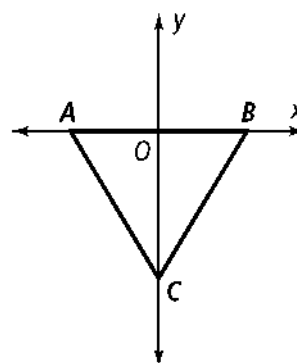**2.** rectangle centered at the
origin with base $2b$ and height $2h$

3. square with height x

5. kite *MNOP* where $PN = 4s$
and the *y*-axis bisects $\overline{PN}$

6. isosceles $\triangle ABC$ where $AB = 2n$
and the *y*-axis is the median
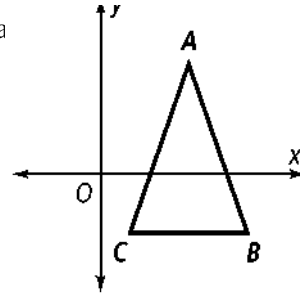
6-8

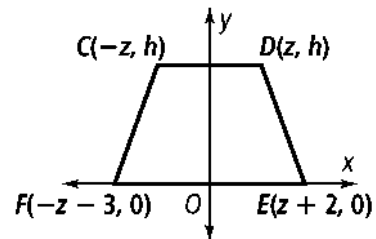**Practice** (continued)   *Form G*

Applying Coordinate Geometry

10. In the triangle at the right, A is at $(m + r, s)$, B is at $(2m, -p)$, a
C is at $(2r, -p)$. Is this an isosceles triangle? Explain.
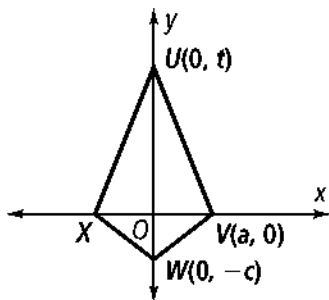
11. Is the trapezoid shown at the right an isosceles
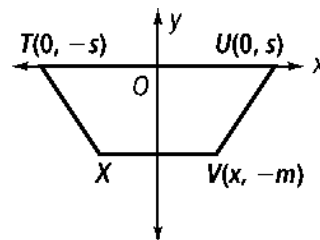trapezoid? Explain.

For Exercises 12 and 13, give the coordinates for point X without using any new variables.

12. Kite

13. $TX = UV$

Classify each quadrilateral as precisely as possible.

15. $A(-3a, 3a),\ B(3a, 3a),\ C(3a, -3a),\ D(-3a, -3a)$

16. $A(c, d + e),\ B(2c, d),\ C(c, d - 2e),\ D(0, d)$