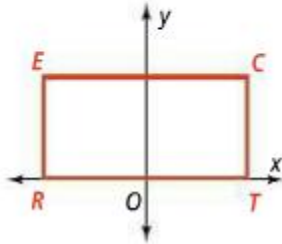


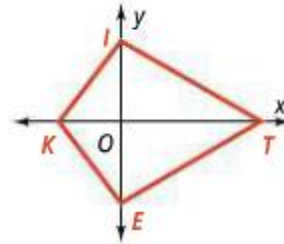
\*Objective:

**Got It? 1.** What are the coordinates of the vertices of each figure?

a. *RECT* is a rectangle with height  $a$  and length  $2b$ . The  $y$ -axis bisects  $\overline{EC}$  and  $\overline{RT}$ .

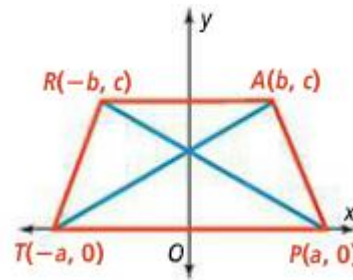
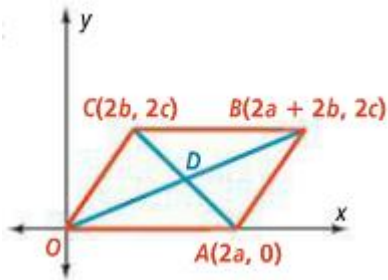


b. *KITE* is a kite where  $IE = 2a$ ,  $KO = b$ , and  $OT = c$ . The  $x$ -axis bisects  $\overline{IE}$ .

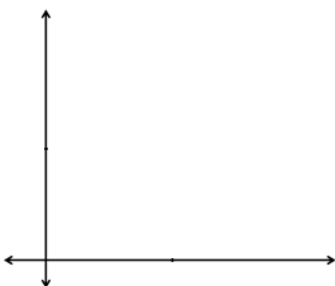


**Got It? 2. a. Reasoning** In Problem 2, explain why the  $x$ -coordinate of  $B$  is the sum of  $2a$  and  $2b$ .

b. The diagram below shows a trapezoid with the base centered at the origin. Is the trapezoid isosceles? Explain.



**Got It? 3.** Plan a coordinate proof of the Triangle Midsegment Theorem (Theorem 5-1).



**Inclass:** p. 410 #10, 14, 28

**Homework:** p. 410-411 #7-29(odd)

**Interactmath:** #9, 11, 14, 17, 22, 27