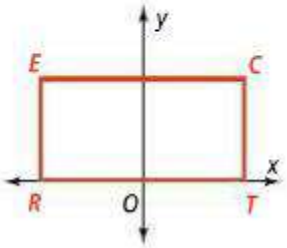
Geometry Notes **Section 6-8: Applying Coordinate Geometry**

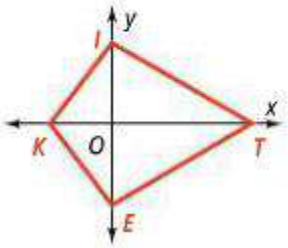
***Objective:**

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 $\overline{RT}$.

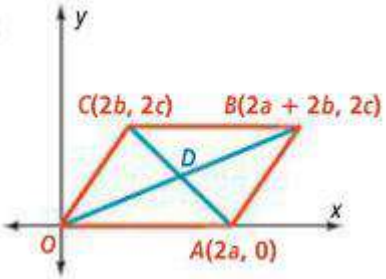


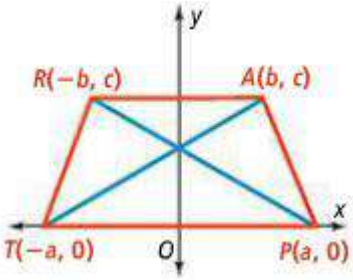
b. *KITE* is a kite where $IE = 2a$, $KO = b$, and $OT = c$. The x-axis bisects $\overline{IE}$.



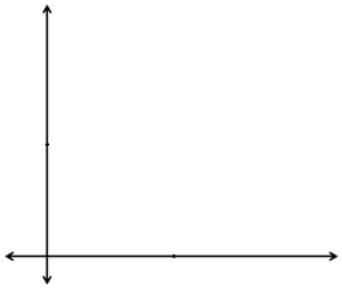
Got It? **2. a. Reasoning** In Problem 2, explain why the x-coordinate of B is the sum of $2a$ and $2b$.

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