

Assignment

Write

Describe how you can determine the area of a composite figure.

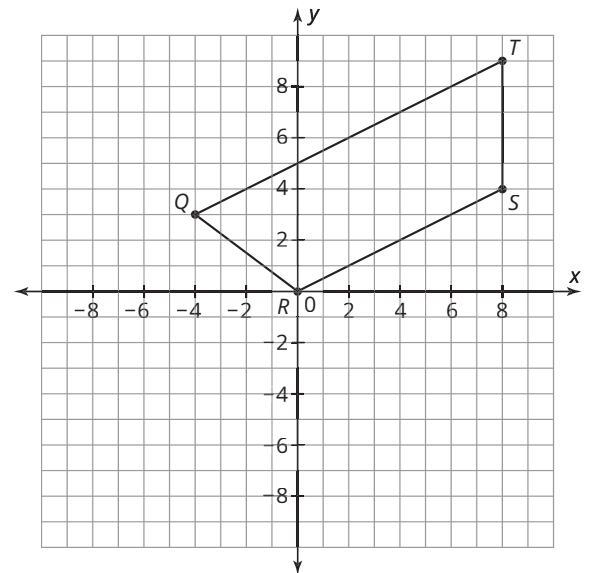
Remember

The perimeter of any polygon on the coordinate plane can be determined by using the Distance Formula and adding the lengths of the sides.

Practice

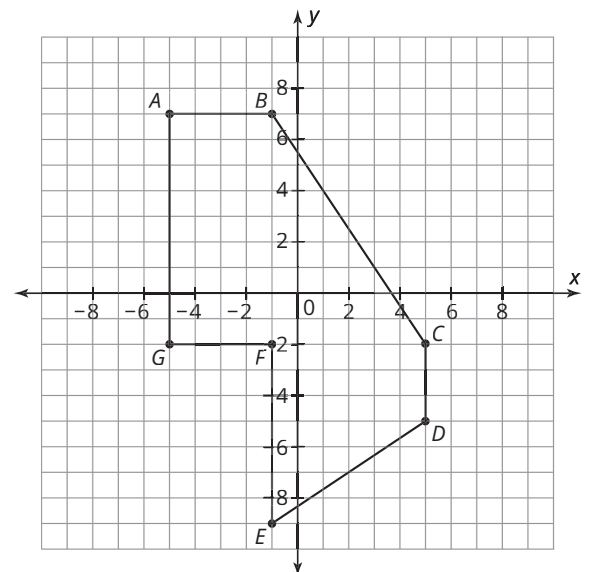
1. Trapezoid $QRST$ is given.

- Determine the perimeter of trapezoid $QRST$. Show your work. Round your answer to the nearest hundredth, if necessary.
- Determine the area of trapezoid $QRST$. Show your work and explain how you determined your answer.



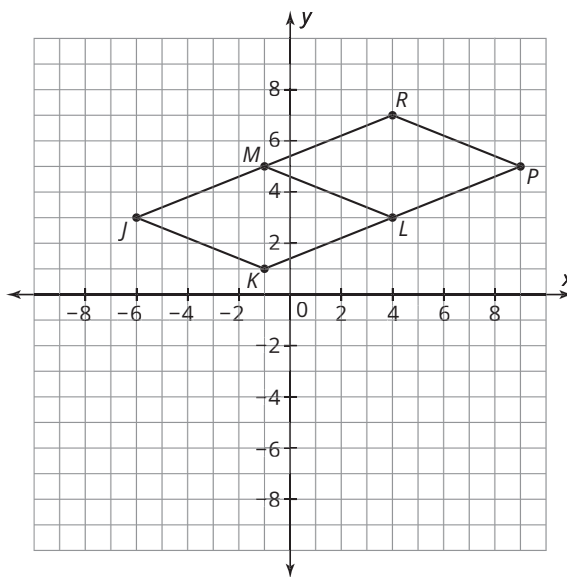
2. Composite figure $ABCDEFGG$ is given.

- Determine the perimeter of figure $ABCDEFGG$.
- Determine the area of figure $ABCDEFGG$.



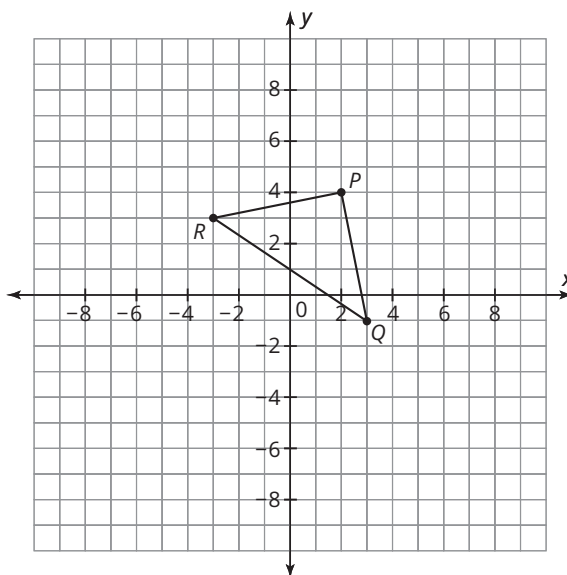
Stretch

Parallelograms $JKLM$ and $JKPR$ are given. Without calculating each area, determine whether or not the area of parallelogram $JKPR$ is twice that of the area of parallelogram $JKLM$. Explain how you determined your answer.



Review

- Lucia and Danna both recently purchased fitness watches. The watches count the number of steps they walk in a day. At lunchtime, Lucia has 5445 steps and Danna has 4995 steps. Lucia averages 800 steps per hour and Danna averages 900 steps per hour.
 - Write and solve a system of linear equations that represent the total number of steps each person takes after lunch.
 - Interpret the meaning of the solution in terms of the problem situation.
- Triangle PQR is given. Determine the area of $\triangle PQR$ using \overline{QR} as the base. Show your work.



- Calculate the average rate of change of the function $f(x) = 2x - 2$ from $x_1 = 5$ to $x_2 = 11$.