Name: _____

Past due on: _____ Period: _____
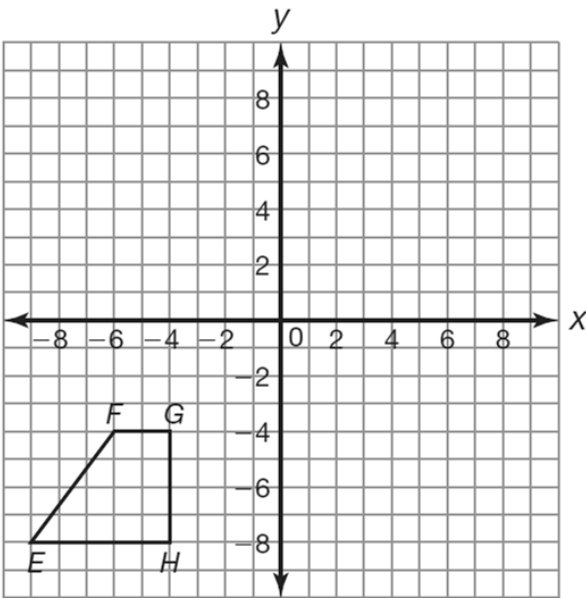
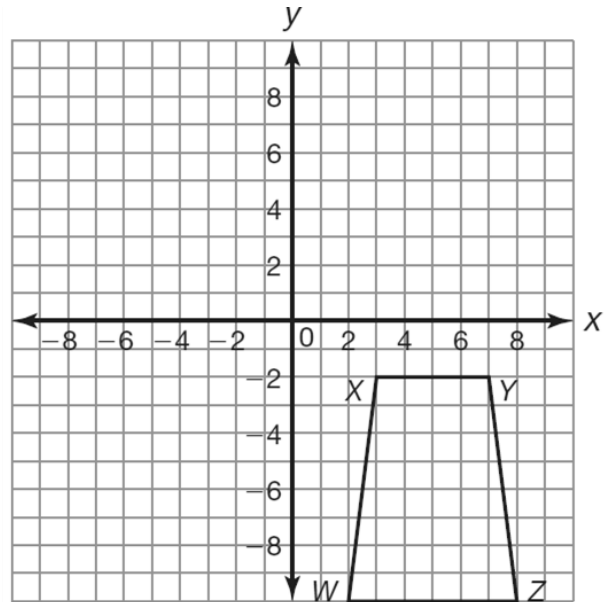## 3.4 – Area & Perimeter of Trapezoids

<mark>Show all work on a separate sheet of paper.</mark>

Translate the trapezoid such that one vertex of the image is located at the origin and label the vertices of the translated image. Determine its perimeter <u>and</u> area. Round your answer to the nearest hundredth, if necessary.
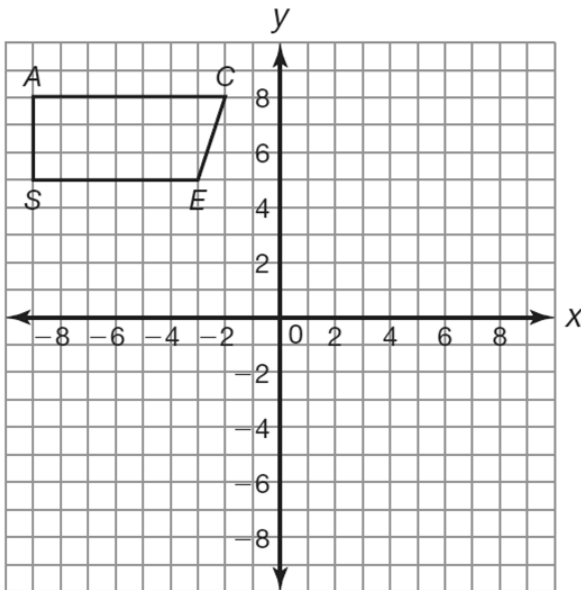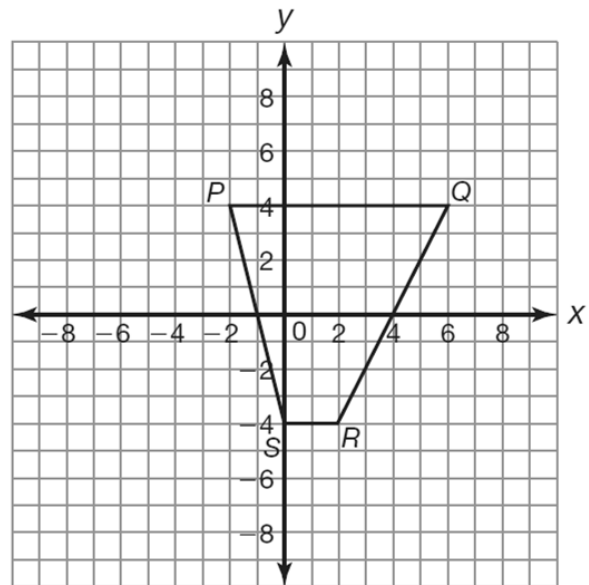
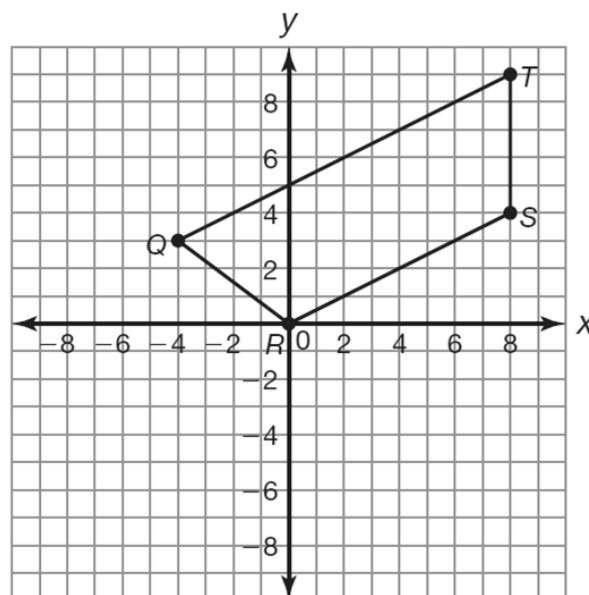1. Trapezoid $EFGH$

2. Trapezoid $WXYZ$

3. Trapezoid $ACES$

4. Trapezoid $PQRS$

5. Trapezoids $QRST$ is graphed on the coordinate plane.
   a. Determine the perimeter of the trapezoid.

   b. Use the boxing method to find the area of the trapezoid.

   Round your answers to the nearest hundredth, if necessary.

6. Graph the figure with the given set of points: $A(4, 0), B(3, 3), C(-1, 3), D(-4, 0), E(-1, -3)$ & $F(3, -3)$.

   a. Explain how you can use trapezoids to find the area of $ABCDEF$.

   b. Find the area of $ABCDEF$.