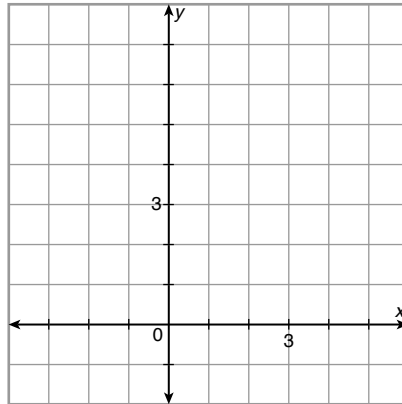
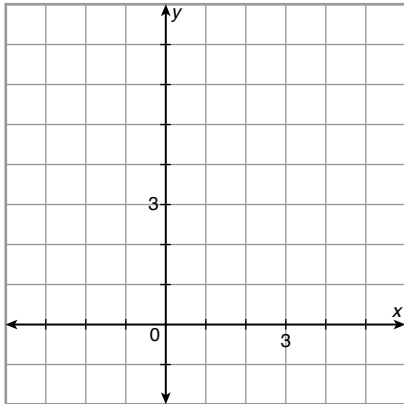
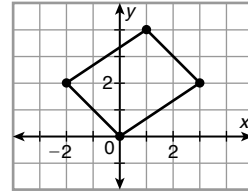
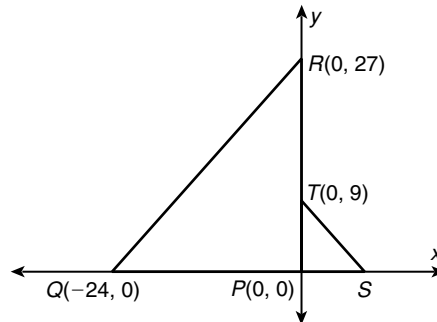
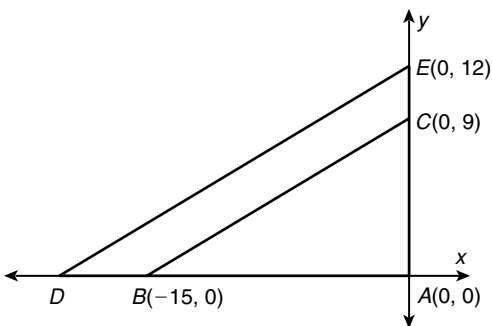


LESSON **Practice B**
7-6 Dilations and Similarity in the Coordinate Plane

A jeweler designs a setting that can hold a gem in the shape of a parallelogram. The figure shows the outline of the gem. The client, however, wants a gem and setting that is slightly larger.



1. Draw the gem after a dilation with a scale factor of $\frac{3}{2}$.
2. The client is so pleased with her ring that she decides to have matching but smaller earrings made using the same pattern. Draw the gem after a dilation from the original pattern with a scale factor of $\frac{1}{2}$.



3. Given that $\triangle ABC \sim \triangle ADE$, find the scale factor and the coordinates of D .
4. Given that $\triangle PQR \sim \triangle PST$, find the scale factor and the coordinates of S .
