Chapter 2
Final Review

Formulas

Circumference =

Area of a Rectangle =

Area of a Parallelogram =

Area of a Triangle =

Area of a Trapezoid =

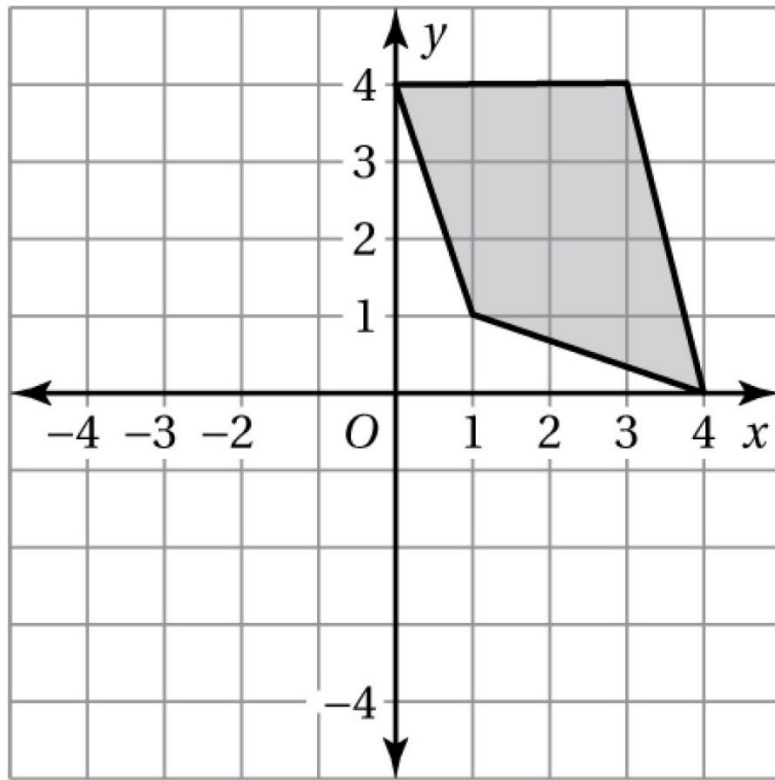**Area of a Circle =**

Formulas

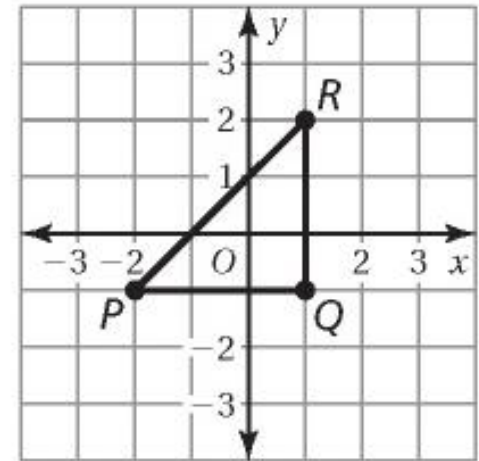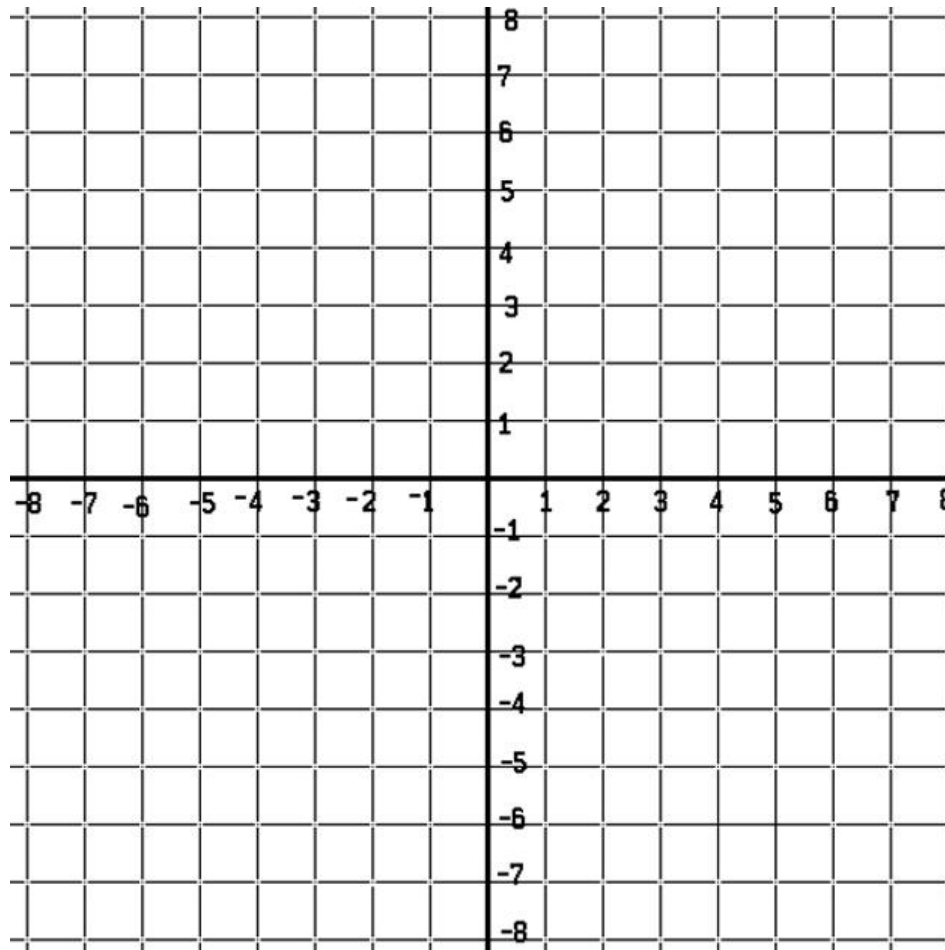**Volume of a Prism =**

Volume of a Cylinder =

Translations

1) Translate the figure 4 units left and 1 unit down. What are the coordinates of the image?

Reflections

2) Translate the triangle 2 units left and 1 unit up. Then reflect the image in the *x*-axis. Graph the resulting triangle.

Rotation Rules

- Switch the _____ coordinate and the _____ coordinate.

- Change the first number to the _____ .

Rule for Rotating 90° counter-clockwise (Rotating 270° clockwise).

- Change the first and second number to the _____ .
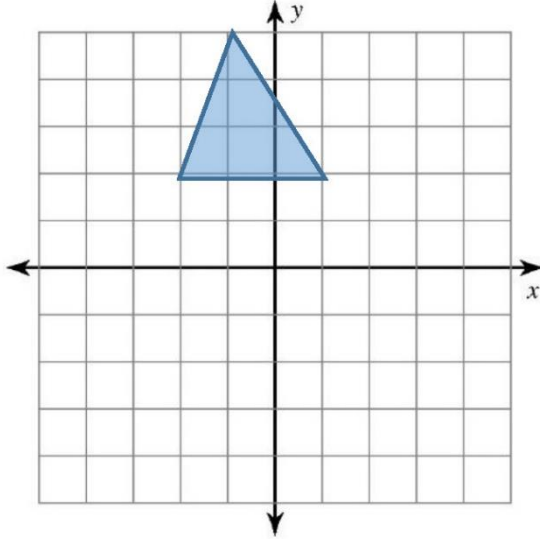
Rule for Rotating 180°

- Switch the _____ coordinate and the _____ coordinate.

- Change the second number to the _____ .

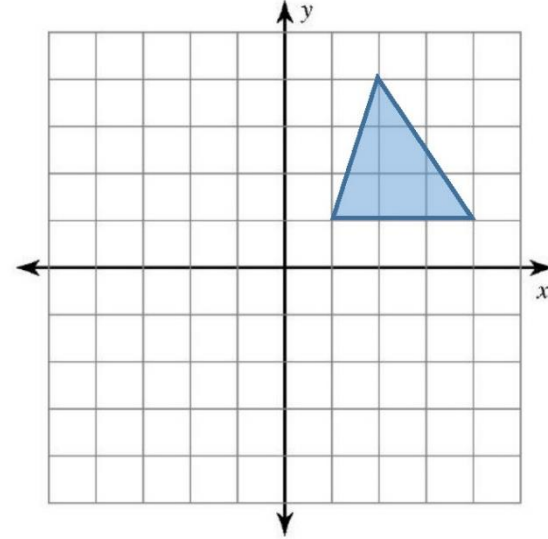**Rule for Rotating 270° counter-clockwise (Rotating 90° clockwise).**

Rotation Rules

Graph the image of the figure using the given transformation.

3) rotation 180° about the origin

4) rotation 90° counter-clockwise about the origin

Dilations

The vertices of a triangle are D (1, 4), E (1, 1), ad F (3, 1). Draw the triangle and its image after a dilation with a scale factor of 2. Identify the type of dilation.

5)