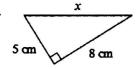
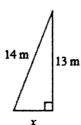
# Pythagorean Theorem, Symmetry, and Transformation Rules

# Solve for the missing side using the Pythagorean Theorem:

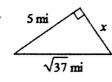
1.



2

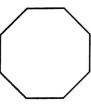


3.



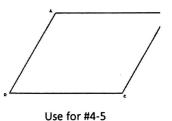
## Symmetry of Quadrilaterals and Regular Polygons:

- 1. List <u>all</u> the angles of rotation less than 360° that will carry the figure onto itself.
- 2. On the regular octagon, draw the lines of reflection (symmetry) that carry the figure onto itself.



Use for #1-2

- 3. How many lines of reflection (symmetry) will a seven sided regular polygon have?
- 4. List all the angles of rotation less than 360° that will carry the figure onto itself.
- 5. On the parallelogram, draw the lines of reflection (symmetry) that carry the figure onto itself. •



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### **Other Review Materials:**

### **Unit 1 Lesson 1 Translations Activity**

## **Unit 1 Lesson 4 Reflections Activity**

Memorize your rules for rotation 90°, 180°, and 270° and reflection over the x-axis, y-axis, y = x, and y = -x. Review your vocabulary words (especially your definitions and properties of the rigid motion transformations)

