

- Describe the *line of symmetry* of an isosceles triangle.
- The capital letter T has   ?   . (*line symmetry* or *rotational symmetry*)





# HW 9.5

## p637 1-18, 20-25, 29, 30

Tell whether each figure has line symmetry. If so, copy the shape and draw all lines of symmetry.


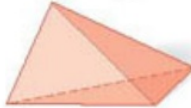

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Tell whether each figure has rotational symmetry. If so, give the angle of rotational symmetry and the order of the symmetry.

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9. **Architecture** The Pentagon in Alexandria, Virginia, is the world's largest office building. Copy the shape of the building and draw all lines of symmetry. Give the angle and order of rotational symmetry.




Tell whether each figure has plane symmetry, symmetry about an axis, or neither.

- sphere 
- triangular pyramid 
- torus 

Draw a triangle with the following number of lines of symmetry. Then classify the triangle.


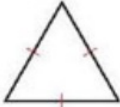

- exactly one line of symmetry
- three lines of symmetry
- no lines of symmetry

Tell whether each figure has plane symmetry, symmetry about an axis, or neither.

- prism 
- cylinder 
- rectangular prism 

### PRACTICE AND PROBLEM SOLVING

Tell whether each figure has line symmetry. If so, copy the shape and draw all lines of symmetry.

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Tell whether each figure has rotational symmetry. If so, give the angle of rotational symmetry and the order of the symmetry.

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Tell whether the figure with the given vertices has line symmetry and/or rotational symmetry. Give the angle and order if there is rotational symmetry. Draw the figure and any lines of symmetry.

- $A(-2, 2), B(2, 2), C(1, -2), D(-1, -2)$
- $R(-3, 3), S(3, 3), T(3, -3), U(-3, -3)$

