2/26/20 - Warm Up Problem
Write a transformation in function notation to describe each graph.

$T(3,-4)$


$$
r\left(270^{\circ}, 0\right)
$$


$R_{y}=-\frac{1}{2}(A B C)$

Write a composition of transformations in function notation that maps each preimage onto its image.
35.

36.

37.


40.


## Concept 21 - Symmetry

Goals: determine if a figure shows reflectional or rotational symmetry find lines of symmetry and angles of rotational symmetry

Symmetry: a rigid motion maps the figure onto itself

There are two kinds of symmetry:

- reflectional symmetry
- rotational symmetry



## Reflectional Symmetry (line symmetry)

- One half of the figure is a mirror image of the other half
- A line of symmetry can be drawn through figure


Rotational Symmetry
A figure has rotational symmetry if the figure looks the same after being rotated less than $360^{\circ}$

- a figure can have several different angles of rotational


