

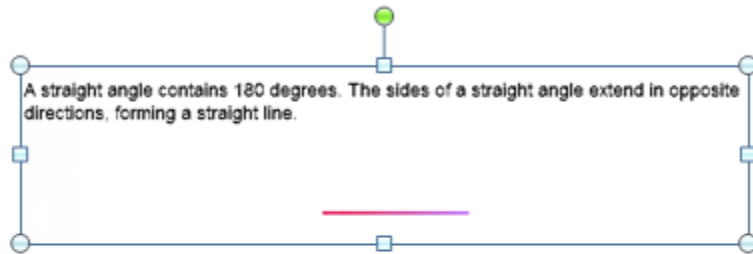
Unit 6 Study Guide

Notes for 6.01

Geometric Concepts

Angles

An angle of 90° is a right angle.



A straight angle contains 180 degrees. The sides of a straight angle extend in opposite directions, forming a straight line.

The symbol \square denotes a right angle.

An angle of less than 90° is an acute angle.

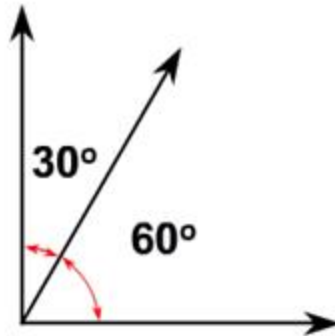


An angle of more than 90° but less than 180° is an obtuse angle.



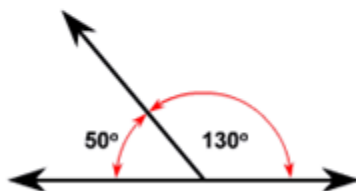
Complementary angles

When the sum of the measures of two angles is 90° , the angles are said to be complementary.



Supplementary Angles

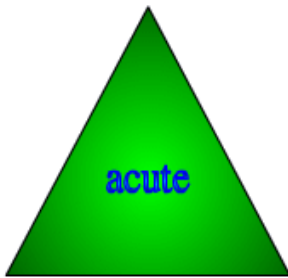
When the sum of the measures of two angles is 180° , the angles are said to be Supplementary



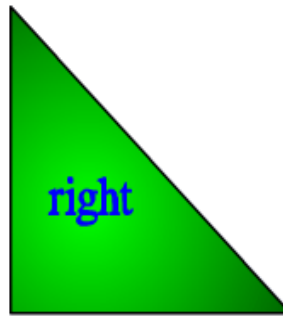
Geometry and Statistics

6.02 Plane Figures

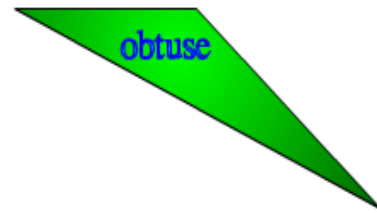
Triangles are also named by their angles.



three acute angles

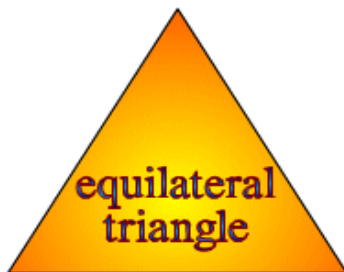


one right angle

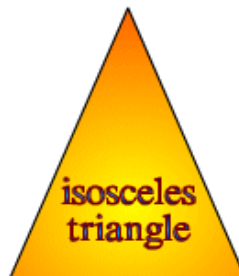


one obtuse angle

Triangles are named by their sides.



all sides
congruent



at least 2 sides
congruent



no sides
congruent

Geometry and Statistics

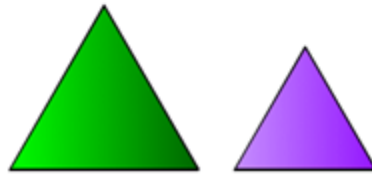
6.03 Motion Geometry

Figures:

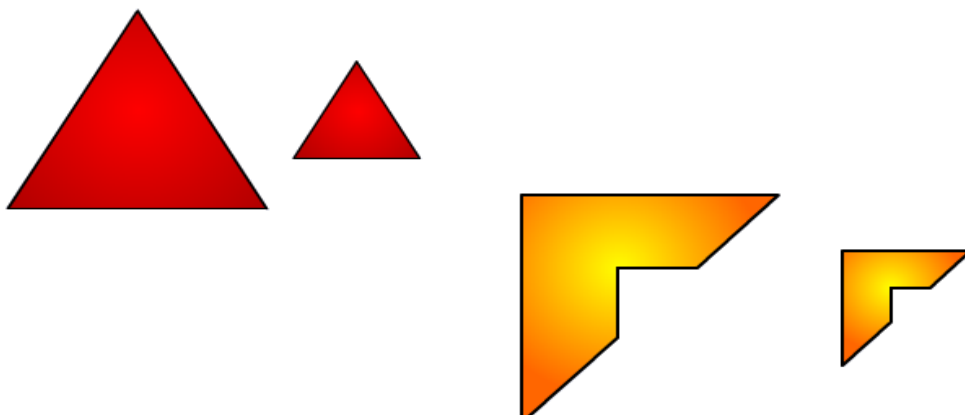
- Congruent figures have the same shape and size.



- Similar figures have the same shape.
- They DO NOT have the same size.



Similar figures have the same shape, but not the same size.

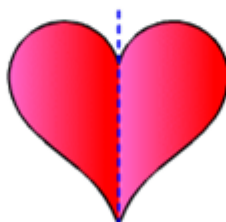


Figures are congruent if they have the same shape and the same size.



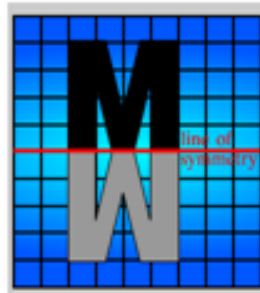
Symmetry:

- A figure is **symmetric** if a line can be drawn through it so that each half is exactly alike.



Motion Geometry

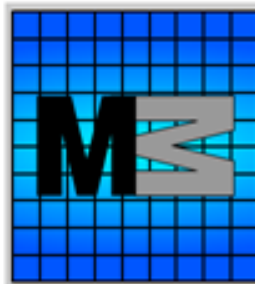
Flip = Reflection



Slide = Translation



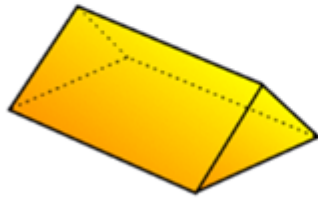
Turn = Rotation



6.04 Space Figures

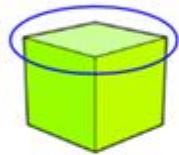
What is a PRISM?

A **PRISM** is a 3D shape with **2** congruent (equal) **bases**:

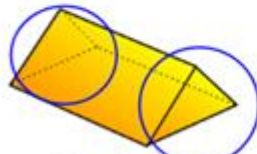


How are prisms named?

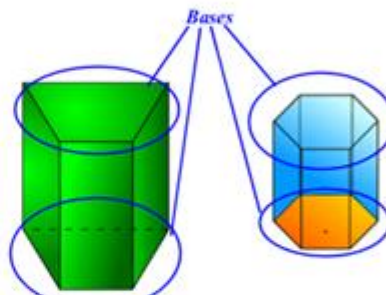
Prisms are named for their bases.



square prism (cube)



triangular prism



trapezoidal prism

hexagonal prism

What is a Pyramid?

A **PYRAMID** is a 3D shape with **1 Base**.



Pyramids

Pyramids rest on a face called a base. All other faces of pyramids are triangles. Pyramids are named for their bases.

