

# Sheet 142: Concepts through Angles

Geometry is the study of (7 things)...

## Properties and # dimensions

Points

Lines

Planes

## Definitions

Space

Collinear

Intersection

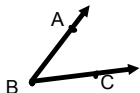
Congruent

Postulate

## Name angles

vertex

sides (rays)



## Segment Calculations

If B is between A and C,  $AB+BC=AC$ .  
(Segment Addition Postulate)

Distance between A and B in x-y plane

## Angle Calculations

Complementary angles

Supplementary angles

Adjacent angles  
(Angle Addition Postulate)

## Types of Angles

Acute

Right

Obtuse

Straight

## Drawings

Astrid

Circle

## Constructions

Copy segment

Equilateral triangle (60° angle)

## Symbols

=

≅

∠

$\angle ABC$

$\angle ABC \cong \angle XYZ$

$m\angle 1$

$m\angle 1 = m\angle 2$

## Draw and/or name

Rays

Segments

$\overline{AB}$

$\overline{AB}$

$\overline{AB}$

$\overline{AB}$