

Geometry

POINTS, LINES, AND PLANES

Technically, the words "point," "line," "plane" cannot be defined without using circular reasoning.

DIMENSION 0: POINTS

Point: A specific location in space with no width, length, or height. Point P is denoted by a dot.

• It's best the dot is thick and only a crude representation of the actual point.

DIMENSION 1: LINES, RAYS, SEGMENTS

Line: A line has infinite extensions of points arranged in a straight formation with only one dimension: length.

Ray: A ray has one endpoint and extends infinitely in one direction. The ray with endpoint A extending through B is denoted \overrightarrow{AB} .

Any two different points define a unique line. The line containing points A and B is denoted \overleftrightarrow{AB} .

Three or more points that lie on a line are **collinear**. Three or more points that do not lie on the same line are **non-collinear**. Any two points are collinear. If three points are collinear, one of them is between the other two. Notation: $A-B-C$ (or $C-B-A$) means that point B is between points A and C .

Line segment: A portion of a line with two endpoints and finite length. The segment

with endpoints A and B is denoted \overline{AB} .

• A segment is the set of all points between the two endpoints.

Ray: A "half-line"—a portion of a line that has an endpoint and extends without end in one direction. The ray with endpoint A extending through B is denoted \overrightarrow{AB} .

• \overleftrightarrow{AB} is the set of all points X such that A is between X and B or B is between X and A .

Two rays that have a common endpoint but extend in opposite directions are called **opposite rays**.



DIMENSION 2: PLANES

Plane: A flat, two-dimensional surface in space with two dimensions: length and width. A plane has no height.

Any three non-collinear points define a unique plane.

Any line and a point not on the line define a unique plane.

A set of points or lines are **coplanar** if they lie in the same plane; **non-coplanar** if they do not.

DIMENSION 3: SPACE

Space: The infinite set of all points. Space has three dimensions: length, width, and height.

ANGLES

Two rays that share a common endpoint (vertex) are **angle**. The common endpoint is called the **vertex** of the angle.

We can think of an angle as being formed by rotating a ray **clockwise** or **counterclockwise**.

Between the angle's **initial side** (starting position of the ray) and **terminal side** (end position of the ray).

• **Notation:** Rays \overrightarrow{AB} and \overrightarrow{AC} create angle $\angle BAC$ (or $\angle CAB$).

A pair of rays that share a common endpoint create two angles that are **supplementary** if they add to 180° and **complementary** if they add to 90° .



MEASURING ANGLES: CONGRUENT ANGLES

We measure angles in **degrees** ($^\circ$). The measure of $\angle A$ is denoted $m\angle A$.

In geometry, angles are usually measured in **degrees** ($^\circ$). A degree is a unit of angle measure in which a complete revolution is 360° ; each degree is subdivided into 60 **minutes** ($'$), and each minute is subdivided into 60 **seconds** ($''$).

Angles can also be measured in **radians** (rad). A complete revolution measures 2π radians.

Radian measure is technically unitless. The radian measure of an angle is the length of an arc of a circle of radius 1 subtended by that angle.

Converting between degrees and radians:

1 revolution = 360° = 2π rad
 1 rad = $\frac{180^\circ}{\pi}$ = $\frac{180}{\pi}$ revolutions
 1° = $\frac{\pi}{180}$ rad = $\frac{\pi}{180}$ revolutions

Congruent angles: If $\angle A$ and $\angle B$ have the same measure, they are **congruent**. Write

$\angle A \cong \angle B$ or $m\angle A = m\angle B$. In diagrams, congruent angles are noted by marking the arc of the angle with an equal number of strokes. Two diagrams in angles pairs: vertical angles below.

TYPES OF ANGLES

Zero angle: 0° . The two rays coincide.



Right angle: 90° . The two rays are perpendicular. In diagrams, a right angle is indicated with a square bracket.



Straight angle: 180° . The two rays are opposite.



Acute angle: Less than 90° . Between a zero angle and a right angle, the angle is "sharp."



Obtuse angle: Greater than 90° and less than 180° . Between a right angle and a straight angle, the angle is "blunt."



Oblique angle: Either acute or obtuse (not zero, right, or straight).



Vertical angles: Two intersecting lines form opposite vertical angles. The vertical angles in each pair are congruent. Any two adjacent angles will be supplementary.



• One of the angles is the intersection of two lines is a right angle, then all four angles are right angles.



Supplementary angles: Two angles that share a common vertex and a common side, but no common interior points.



Complementary angles: A pair of angles the sum of whose measures is 90° .



ANGLE PAIRS

Adjacent angles: Two angles that have a common vertex and a common side, but no common interior points.

Complementary angles: A pair of angles the sum of whose measures is 90° .

Supplementary angles: A pair of angles the sum of whose measures is 180° .

Vertical angles: Two intersecting lines form opposite vertical angles. The vertical angles in each pair are congruent. Any two adjacent angles will be supplementary.

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PARALLEL LINES CUT BY TRANSVERSAL

Two parallel lines intersected by a **transversal**—a line not parallel to either—create 8 angles (four sets of vertical angles) with special relationships.



Parallel lines \overleftrightarrow{AB} and \overleftrightarrow{CD} are cut by the transversal \overleftrightarrow{EF} . Here, $\angle 1$ is $\angle AEF$, $\angle 2$ is $\angle BEF$, $\angle 3$ is $\angle CEF$, and $\angle 4$ is $\angle DEF$.

Corresponding angle pairs: Four pairs, on the same side of the transversal and separated by one of the parallel lines. Corresponding angles are congruent. Here, $\angle 1$ is $\angle 5$, $\angle 2$ is $\angle 6$, $\angle 3$ is $\angle 7$, and $\angle 4$ is $\angle 8$.

Alternate interior angle pairs: Two pairs, between the parallel lines, on opposite sides of the transversal. Alternate interior angles are congruent. Here, $\angle 3$ is $\angle 2$ and $\angle 4$ is $\angle 1$.

Alternate exterior angle pairs: Two pairs, outside the parallel lines, on opposite sides of the transversal. Alternate exterior angles are congruent. Here, $\angle 1$ is $\angle 8$ and $\angle 2$ is $\angle 7$.

Interior angle pairs: Two pairs, on the same side of the transversal. Interior angles are supplementary. Here, $\angle 3$ and $\angle 2$ are $\angle 4$ and $\angle 1$.

Angle bisector: The ray that bisects the interior of an angle with its endpoint on the vertex of that angle is the **angle bisector**. It creates two new angles of equal measure.



Ray \overrightarrow{BD} bisects $\angle ABC$.

PARALLEL AND PERPENDICULAR LINES

PARALLEL LINES

If two lines are in the same plane, then they either intersect or are parallel. Parallel lines never intersect. If two lines ℓ_1 and ℓ_2 are parallel, we can write $\ell_1 \parallel \ell_2$.

Parallel Postulate: Given a line and a point not on the line, there is exactly one line through that point parallel to the given line.

Two lines ℓ_1 and ℓ_2 are parallel. Line ℓ_3 is the unique line through point P parallel to ℓ_1 .

Two intersecting lines are **perpendicular** if their intersection forms a right angle. Equivalently, four right angles. If ℓ_1 and ℓ_2 are perpendicular, we write $\ell_1 \perp \ell_2$.

Given a line and any point, there is one and only one line perpendicular to the line that passes through the point.

PERPENDICULAR LINES

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Mary Lee Vivian



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