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: $\cdot P$

but the dot is thick and only a crude representation of the actual point.

DIMENSION 1: LINES, RAYS, SEGMENTS

Line: A line is an infinite collection of points arrayed in a straight formation with only one dimension: length.

Line $\overleftrightarrow{AB}$

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

— There are many points that lie on a line are **collinear**. Those on seem 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. One ("...B...") 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 $\overline{AB}$.

Points A, B, C, and D are collinear. B is between A and C. C is between B and D. A is not between C and D.

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 containing through B is denoted $\overrightarrow{AB}$.

— $\overrightarrow{AB}$ is the set of all points X such that X is between A and B or B is between A and X.

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

Line segment $\overline{AB}$; Ray $\overrightarrow{AB}$

DIMENSION 2: PLANES

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

— Any three noncollinear 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 create an **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**, and comparing positions of the ray's 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 actually create two angles, one is larger than 180° (a reflection of the other across the line you "see" with vertex A).

MEASURING ANGLES; CONGRUENT ANGLES

We measure angles to see how wide or narrow they are. The measure of $\angle A$ is denoted $m\angle A$.

— In geometry, angles are usually measured in **degrees** (°). 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 divided by the radius of the circle.

Converting between degrees and radians:

1 revolution $= 360° = 2\pi$ rad

1 rad $= \frac{360°}{2\pi} = \frac{180°}{\pi}$ revolution

$1° = \frac{2\pi}{360}$ rad $= \frac{\pi}{180}$ revolution

Congruent angles: If $\angle A$ and $\angle B$ have the same measure, they are **congruent**. We write $\angle A \cong \angle B$ or $m\angle A = m\angle B$. In diagrams, congruent angles are noted by crossing the arc of the angle with an equal number of strokes. See diagram in Angle pairs section 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).

ANGLE PAIRS

Adjacent angles: Two angles that have a common vertex and a common side that 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°.

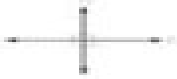
$\angle ABC$ and $\angle CBD$ are complementary.

$\angle ABD$ and $\angle DBE$ are supplementary. They are also adjacent.

Vertical angles: Two intersecting lines (or segments) form four angles; two pairs of opposite (vertical) angles. The vertical angles in each pair are congruent. Any two adjacent angles will be supplementary.

— If one of the angles in the intersection of two lines is a right angle, then all four angles are right angles.

$\angle 1$ and $\angle 3$ are vertical angles; $\angle 2$ and $\angle 4$ are vertical angles.



Lines ℓ_1 and ℓ_2 intersect to form right angles.

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 ℓ_1 and ℓ_2 are cut by the transversal $\overleftrightarrow{AF}$. Here, $\angle 1 \cong \angle 3 \cong \angle 5 \cong \angle 7$ and $\angle 2 \cong \angle 4 \cong \angle 6 \cong \angle 8$.

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, $\angle 1 \cong \angle 5$, $\angle 2 \cong \angle 6$, $\angle 3 \cong \angle 7$, and $\angle 4 \cong \angle 8$.

Alternate interior angle pairs: Two pairs, between the parallel lines, on opposite sides of the transversal. Alternate interior angles are congruent. Here, $\angle 3 \cong \angle 6$ and $\angle 4 \cong \angle 5$.

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

Interior angle pairs: Two pairs, on the same side of the transversal. Interior angles are supplementary. Here, $\angle 3$ and $\angle 5$, $\angle 4$ and $\angle 6$.

ANGLE BISECTOR

The ray that lies within the interior of an angle with its endpoint on the vertex of that angle is the **angle bisector** if 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 say 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.

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

PERPENDICULAR LINES

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 (either on the line or not), there is exactly one perpendicular to the line that passes through the point.

In both diagrams, ℓ_2 is the unique line perpendicular to ℓ_1 and passing through P.

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Terry C. Jones

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