

# 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:  $\bullet P$ , but the dot is thick and only is 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.



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  $A$  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**.



## 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 form a straight line create two angles that are **supplementary**. To avoid confusion, indicate that one ray starts with a dot.



### 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  $360^\circ$ ; 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  $2\pi$  radians.

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

**Converting between degrees and radians:**

1 revolution =  $360^\circ$  =  $2\pi$  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:**  $0^\circ$ . The two rays coincide.



**Right angle:**  $90^\circ$ . The two rays are perpendicular. In diagrams, a right angle is indicated with a square bracket.



**Straight angle:**  $180^\circ$ . The two rays are opposite.



**Acute angle:** Less than  $90^\circ$ . Between a zero angle and a right angle, the angle is "sharp."



**Obtuse angle:** Greater than  $90^\circ$  and less than  $180^\circ$ . 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 do not share interior points.

**Complementary angles:** A pair of angles the sum of whose measures is  $90^\circ$ .

**Supplementary angles:** A pair of angles the sum of whose measures is  $180^\circ$ .



**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.

None of the angles is 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 at four right angles.

### 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.

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

**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 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  $l_1 \parallel l_2$ .

**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  $l_2$  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  $l_1 \perp l_2$ .

Given a line and any point (whether 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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**Mary Lee Vivian**



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