

# 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  $A$  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**.



### 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 sharing a common endpoint create two angles that are **supplemental** if they add to  $180^\circ$  and **complementary** if they add to  $90^\circ$ .



### 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 subtended 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 overlap (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 complementary.

• If one of the angles is a right angle, then all four angles are right angles.



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

Lines  $l_1$  and  $l_2$  are perpendicular;  $\angle 1$  and  $\angle 2$  are 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  $t$ . Here,  $\angle 1 \cong \angle 5$ ,  $\angle 2 \cong \angle 6$ ,  $\angle 3 \cong \angle 7$ , and  $\angle 4 \cong \angle 8$ .

**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 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  $P$ .

# Mcmxciv Instructional Fair Inc Answers Geometry If8763

**Brendan G. Carr**



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