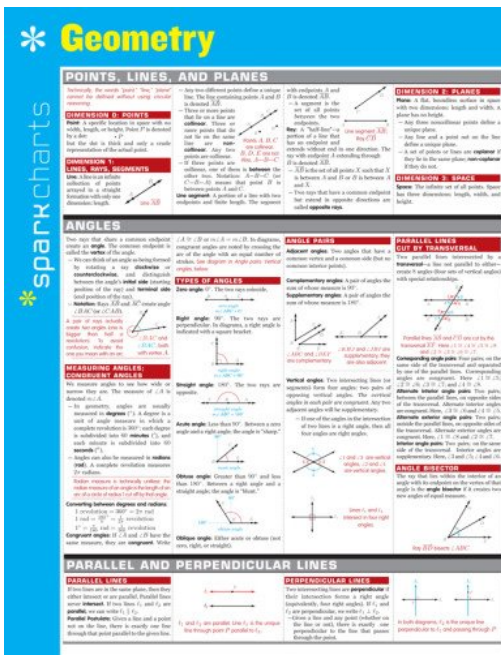


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# Geometry

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## POINTS, LINES, AND PLANES

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

**DIMENSION 0: POINTS**  
**Note:** A specific location in space with no width, length, or height. Point  $P$  is denoted by a dot  $\cdot$  and  $P$ .  
 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 arranged in a straight line 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. Any 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 ray is 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  $X$  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**.

**DIMENSION 2: PLANES**  
**Plane:** A flat, boundless 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.

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## ANGLES

Two rays that share a common endpoint create an **angle**. The common endpoint is called the **vertex** of the angle.

Two rays that share a common endpoint and extend in opposite directions are **adjacent** and **complementary**, and distinguish between the angle's **interior side** (between the rays) and **exterior side** (outside the rays).

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

A pair of rays actually create two angles. One is bigger than half a revolution ( $> 180^\circ$ ) and is called a **reflex angle**. To avoid confusion, indicate the one you mean with an arc.

**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 (but not zero, right, or straight).

**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  $90^\circ$ .

**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.

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

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## PARALLEL AND PERPENDICULAR LINES

**PARALLEL LINES**  
 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.

**PERPENDICULAR LINES**  
 Two intersecting lines are **perpendicular** if their intersection forms a right angle (independently, two 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.

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