

Math4020 Geometry Vocabulary

Point--> Is 0-dimensional.

<u>Line</u>--> Extends forever in two directions; has no thickness; the shortest path between two points is along a line.

Ray--> Part of a line; extends forever in only one direction and has one endpoint.

Line segment--> Shortest path between two points (straight); part of a line; has two endpoints; the intersection of two rays.

Collinear Points--> Two or more points that lie on the same line.

Angle--> Union of two rays with common endpoint called a vertex.

Right Angle--> A 90-degree angle; an angle that is equal in measure to an angle formed by perfectly horizontal and vert

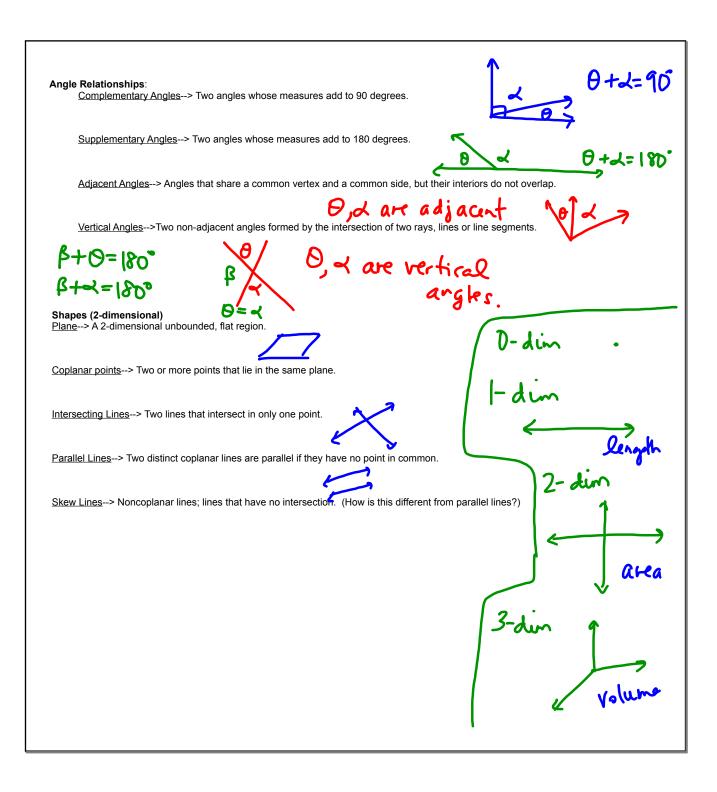
Straight Angle--> An angle that forms a line; 180 degrees.

Acute Angle--> An angle whose measure is between 0 and 90 degrees (non-inclusive).

Obtuse Angle--> An angle whose measure is between 90 and 180 degrees (non-inclusive).

<u>Perpendicular</u>--> Two line segments are perpendicular when they meet at a right angle.

August 28, 2013



Congruent—> Two shapes are congruent if they are the same size and shape. That is, the first shape can be picked up and placed on top of the othe Similar—> Two shapes are similar if they are the same shape, but not necessarily the same size; one of the shapes is a scaled version of the other s Polygon—> A many-sided, closed 2-d shape made up of line segments for sides that meet at vertices.

Convex--> A shape is convex if every line segment, formed by connecting any two points inside the shape, is wholly contained in the shape.

Concave --> A shape is concave if it is not convex.

Regular--> A polygon is regular if all of its sides and all of its interior angles are congruent.

<u>Interior Angle--></u> In a convex polygon, it's the inside angle formed by two adjacent sides.

Exterior Angle--> In a convex polygon, it's the angle formed by the side of the polygon and the extended line from the adjacent side (for every

Central Angle--> For a regular polygon, it's the angle formed by connecting a vertex to the center of the polygon and then to the consecutive v

<u>Triangle</u>--> A 3-sided (straight sides), closed, two-dimensional shape.

<u>Isosceles Triangle--></u> A triangle with at least two sides that are of equal length.

Equilateral Triangle--> A triangle with all three sides of equal length.

Scalene Triangle--> A triangle with all three sides of different length.

Obtuse Triangle--> A triangle with one obtuse angle.

Right Triangle --> A triangle with one right angle.

Acute Triangle--> A triangle with all acute angles.

<u>Quadrilateral</u>--> A 4-sided (straight sides), closed, two-dimensional shape.

Square--> A quadrilateral with four congruent sides and four right angles.

Rectangle --> A quadrilateral with four right angles.

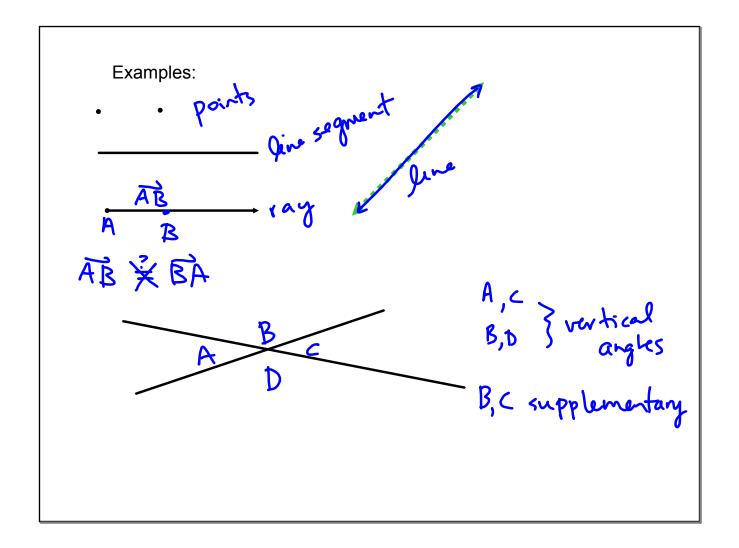
Parallelogram --> A quadrilateral with two pairs of parallel sides.

<u>Kite</u>--> A convex quadrilateral with two distinct pairs of adjacent congruent sides.

Rhombus--> A quadrilateral with four congruent sides.

<u>Trapezoid</u>--> A quadrilateral with exactly one pair of parallel sides.

<u>Isosceles Trapezoid</u>--> A trapezoid whose non-parallel sides are congruent.



18°35'29" +12°55'41" | minute = 40° 90' 70" = 40° 91' 10" 60"= 11 = 41° 31′ 10″ m (<AOB)= = = = (<0D) 0 x= 3 y 2 = 40° X+ 90+y=180° $\frac{4}{3}y = 90$ 1 x+y < 90 y=90(3)= $X = \frac{1}{3}(90)(\frac{3}{4})$ = (7=

