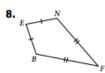
- 2. Figure B. A trapezoid is a quadrilateral with exactly one pair of parallel sides.
- **3.** Figure D. A rhombus is a quadrilateral with four congruent sides.
- Figure F. A rectangle is a parallelogram with four congruent angles.
- Figure C. A kite is a quadrilateral with two distinct pairs of consecutive congruent sides.
- Figures A, D, and F. A parallelogram is a quadrilateral with two pairs of parallel sides.





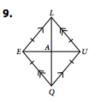


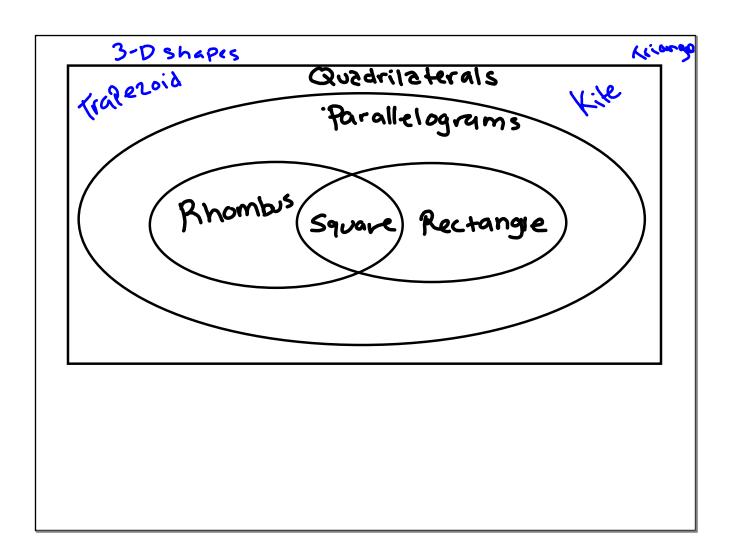
11. To have two outside diagonals, the hexagon must be concave with two "dents."



12. A regular quadrilateral has four congruent sides and four congruent angles. It is a square.





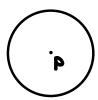


1.7 Circles

Circle - set of all points in a plane at a given distance from a given point

Center - the given point

Radius - the distance from the center to the circle



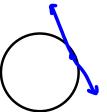
if you see a point at the center of a circle, you can assume it is the center Investigation - page 65 (10 minutes)

Chord - A line segment whose endpoints lie on the circle



Diameter - a chord that passes through the center. A diameter is the longest chord.

Tangent - A line that intersects the circle only once



Can a chord of a circle also be a diameter of the circle? Can it be a tangent? Explain why or why not.

Can two circles be tangent to the same line at the same point? Draw a sketch and explain

Congruent circles - have the same radius

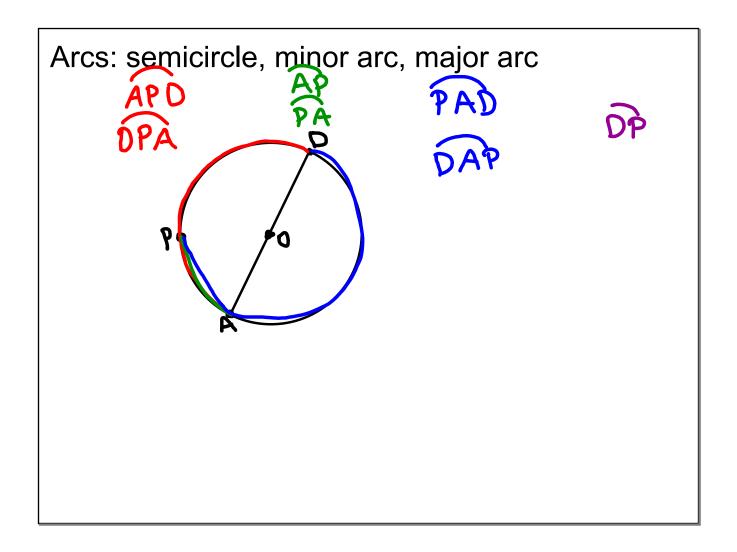


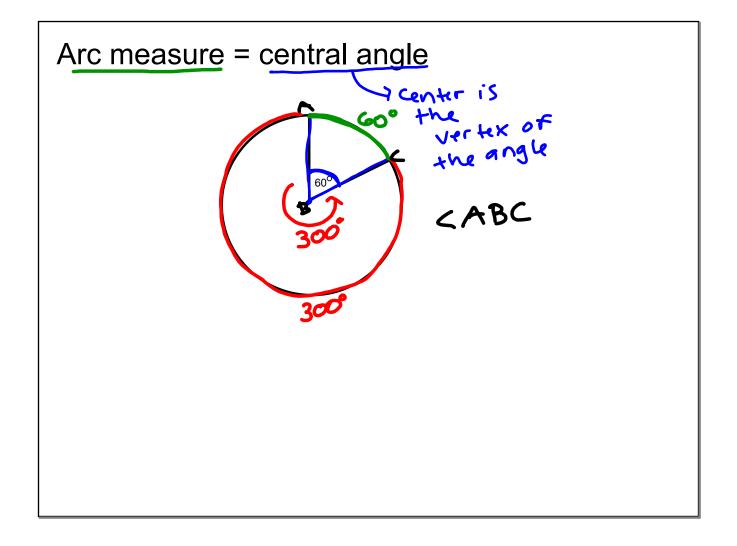


Concentric circles - two or more coplanar circles that have the same center

Arc - two points on the circle and a continuous part of the circle between the two points



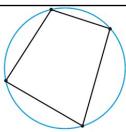




A circle is **circumscribed** about a polygon if and only if it passes through each vertex of the polygon.



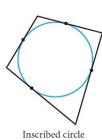
Circumscribed circle



Circumscribed circle

A circle is inscribed in a polygon if and only if it touches each side of the polygon at exactly one point.





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