Circles
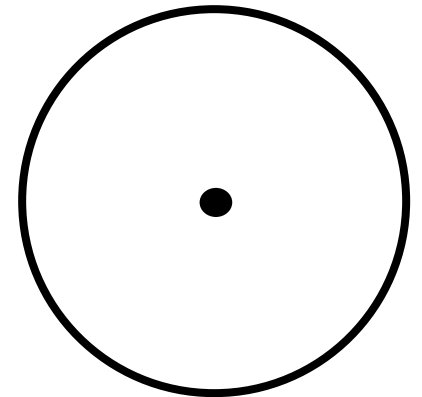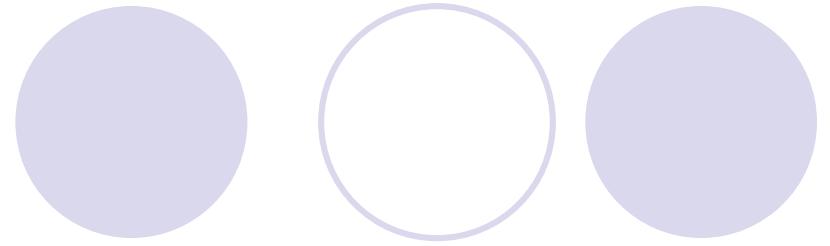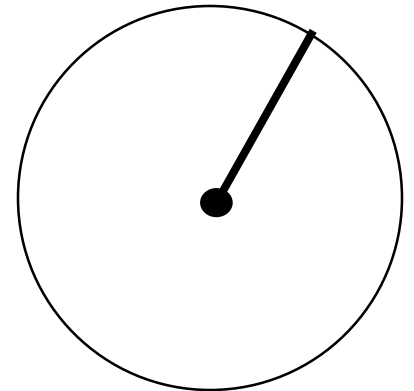
Vocabulary

circle

- *the set of all points in a plane that are equidistant from a given point called the center of the circle*

radius
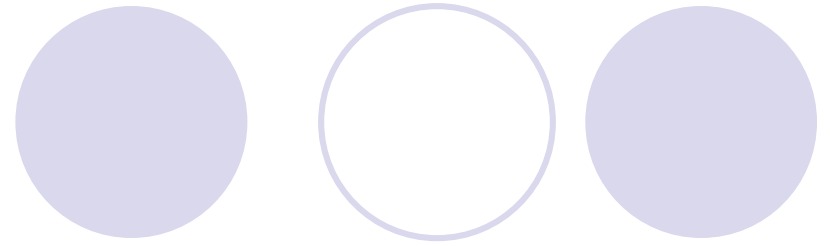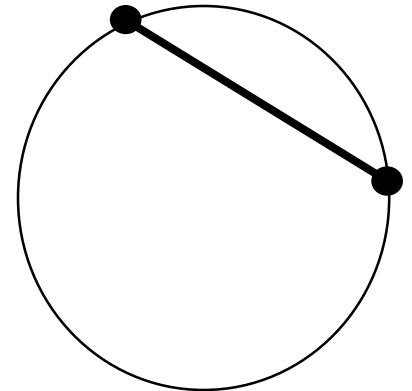
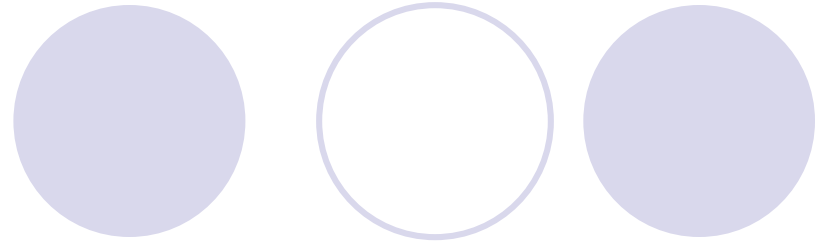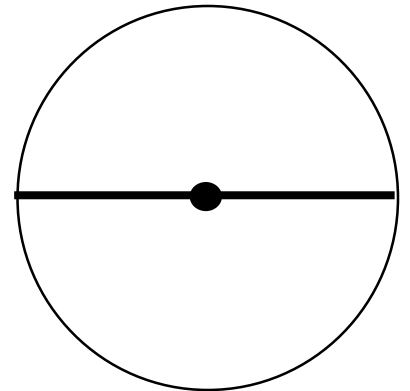- *a segment whose endpoints are the center and any point on the circle*

chord

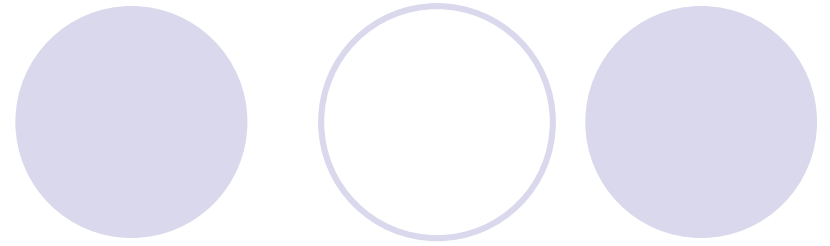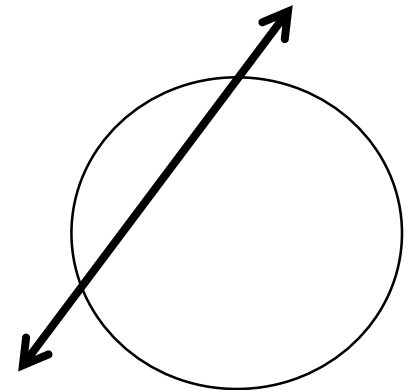- *a segment whose endpoints are on a circle*

diameter

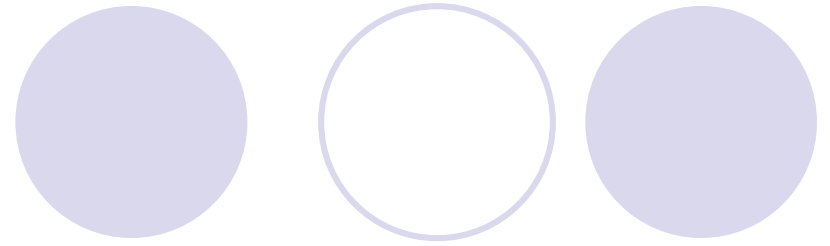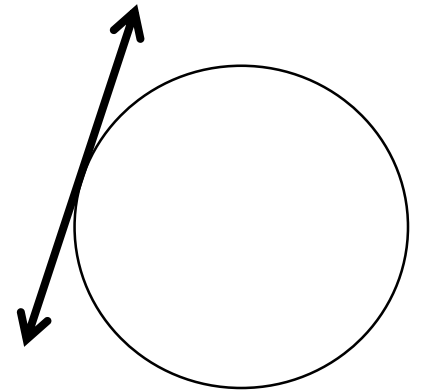- *a chord that contains the center of a circle*

secant

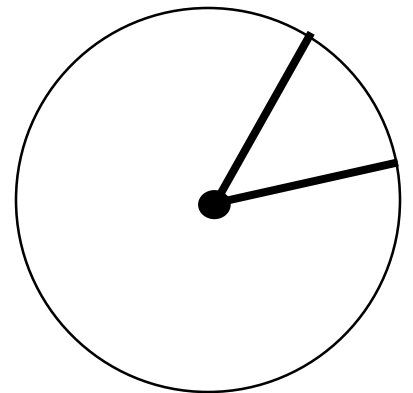- *a line that intersects a circle in two points*

tangent

- *a line in the plane of a circle that intersects the circle in exactly one point, the **point of tangency***
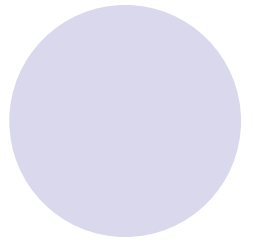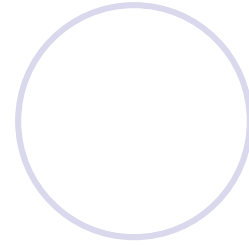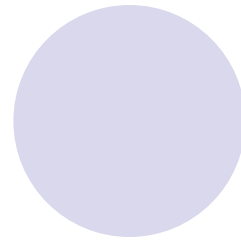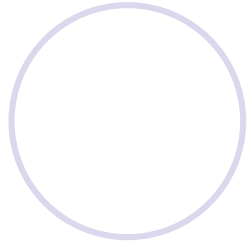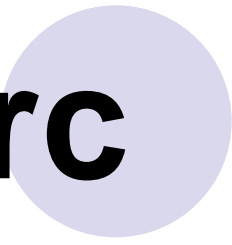
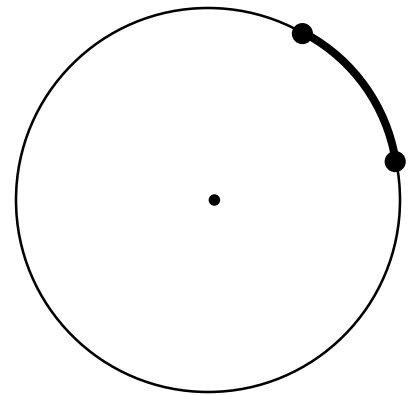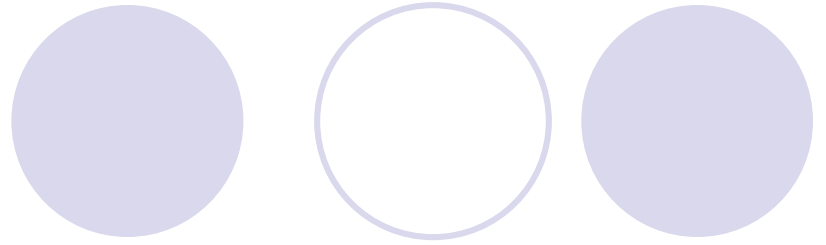# central angle

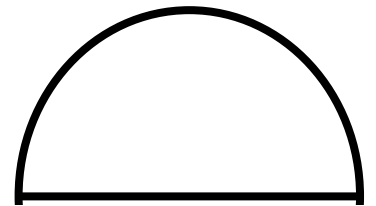- *an angle whose vertex is the center of the circle*
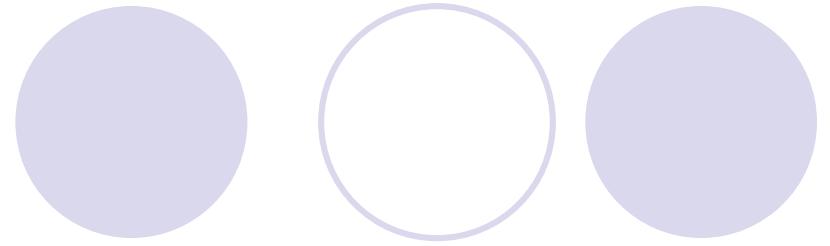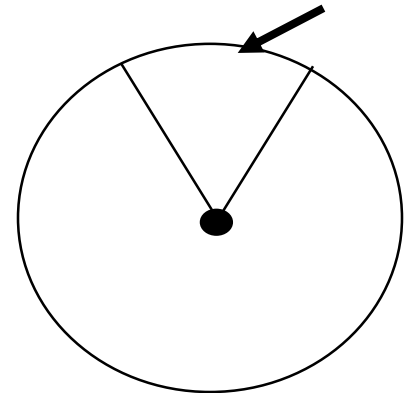
arc

- *an unbroken part of a circle*

semicircle

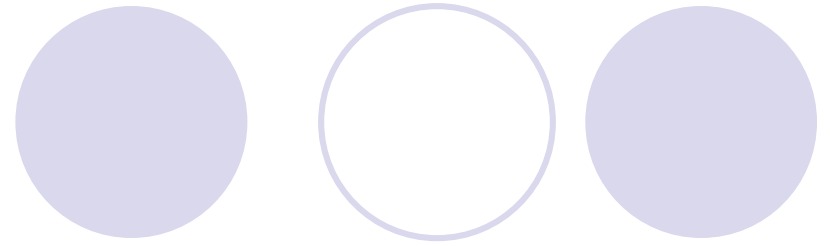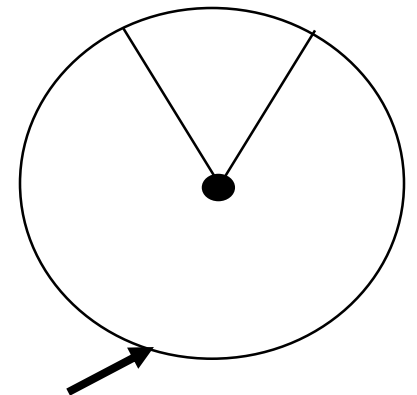- *an arc with endpoints that are the endpoints of the diameter*

minor arc

- *an arc of a circle that measures less than 180°*

major arc

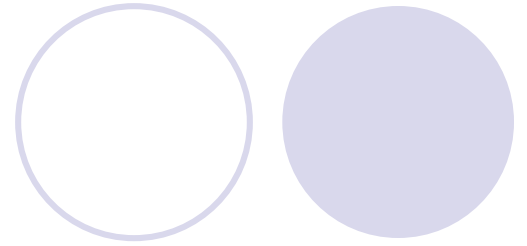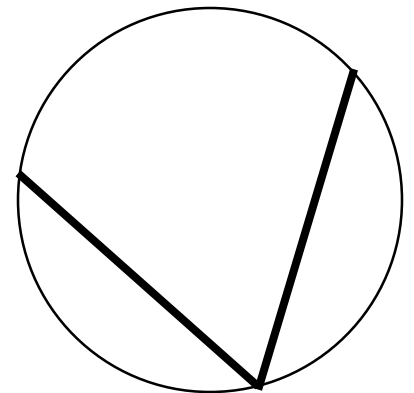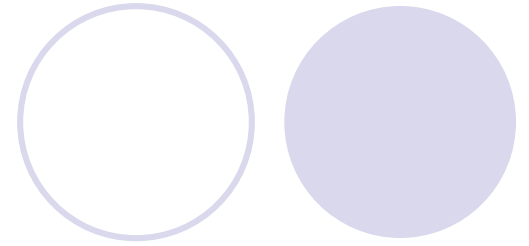- *an arc of a circle that measures more than 180°*
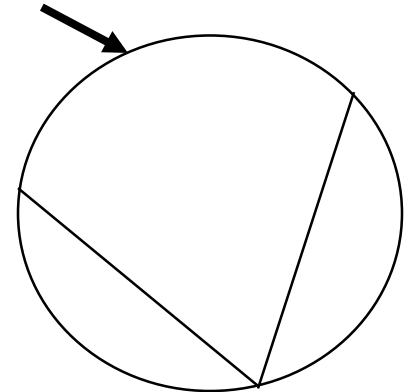
inscribed angle

- *an angle whose vertex is on a circle and whose sides contain chords of the circle*
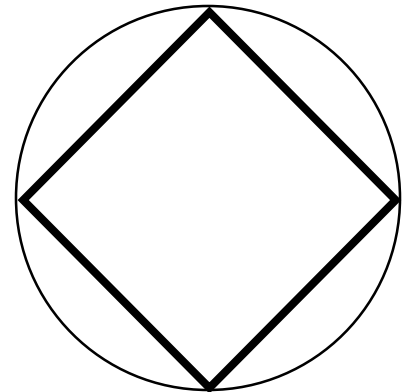
intercepted arc

- *the arc that lies in the interior of an inscribed angle and has endpoints on the angle*
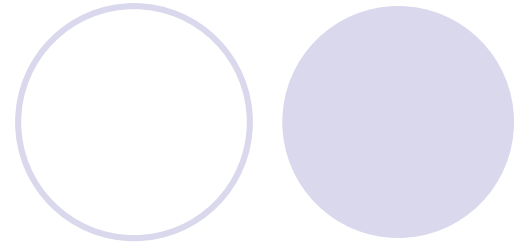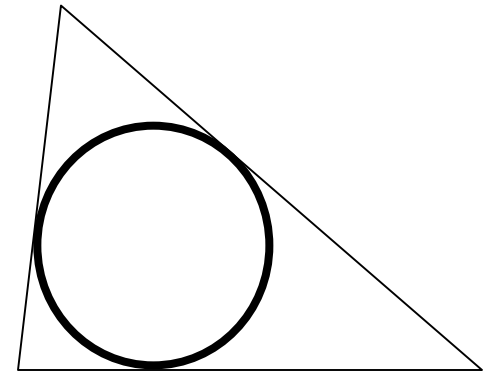
inscribed polygon

- *a polygon whose vertices lie on a circle*
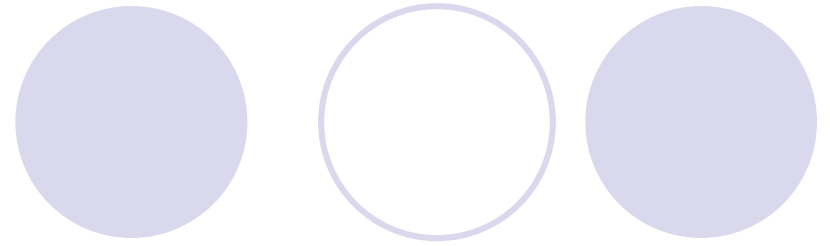
inscribed circle

- *a circle enclosed in a polygon, where every side of the polygon is a tangent to the circle*
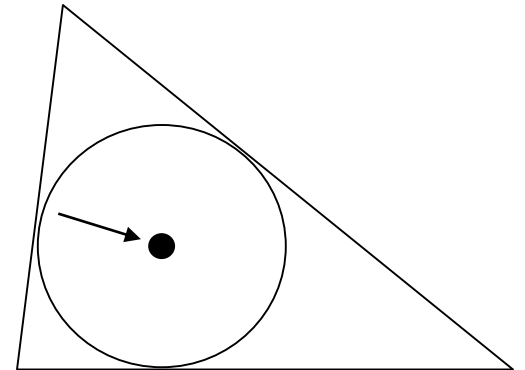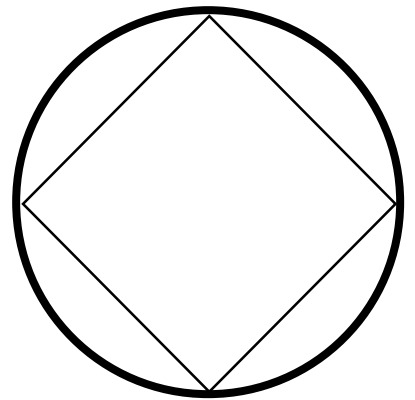
incenter

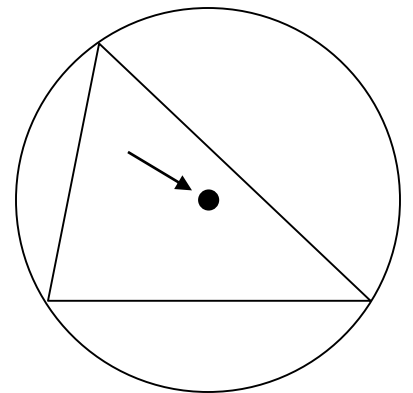- *the center of a circle inscribed in a triangle*

circumscribed circle

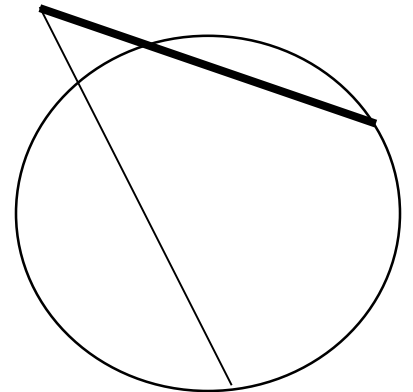- *the circle that contains the vertices of an inscribed polygon*

circumcenter

- *the center of the circle circumscribed about a given triangle.*

secant segment

- *a segment that contains a chord of a circle, and has exactly one endpoint outside the circle*

external segment

- *the part of the secant segment that is outside the circle*