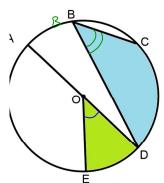
5.6 Circle Properties

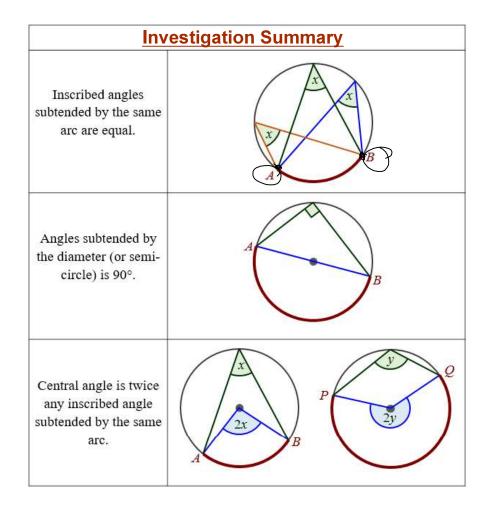


https://www.geogebra.org/classroom/jptpbug7

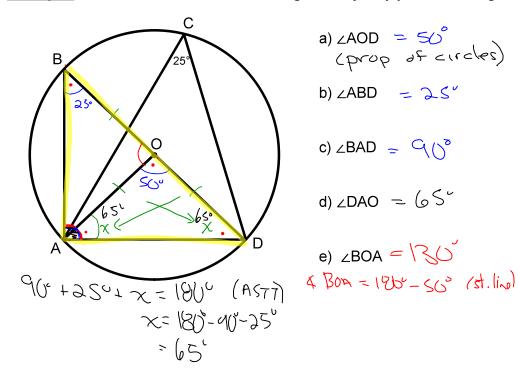
- The point O is the centre.
- The segment BC is a <u>Chord</u>. A line segment that joins to points on a circle.
- The segment AD is a <u>Diameter</u>. A chord that passes through the centre of a circle.
- The segment OE is a <u>radius</u>. A line segment that joins the centre to a point on the circle.

Angle DOE is a Central Angle whose vertex is the centre of a circle and whose legs are both radii.

Angle DBC is an <u>Inscribed and</u>. An angle whose vertex is on the circle and is formed by intersecting chords.



Example: Determine all of the indicated angles and justify your reasoning.



a)
$$\angle AOD = 50^{\circ}$$

(prop of circles)