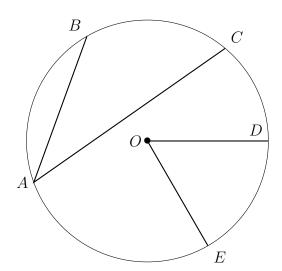
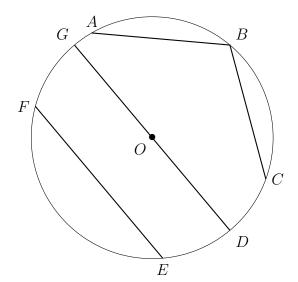
## 11.2 Classwork: Sector area

- 1. Lesson: Given circle O with points on the circle A, B, C, D, E.
  - (a) Highlight the two radii  $\overline{OD}$  and  $\overline{OE}$
  - (b) The segments  $\overline{AB}$  and  $\overline{AC}$  are called *chords* (pronounced with a hard "c", kord)
  - (c) The angle with the circle's center as its vertex is called a central angle,  $\angle DOE$
  - (d) The angle with its vertex on the circle is called an *inscribed angle*,  $\angle BAC$



- 2. Highlight elements in circle O with the required colors.
  - (a) The chords in yellow
  - (b) The diameter in red
  - (c) The vertex of the inscribed angle in blue
  - (d) What is the measure of the central angle,  $\angle DOG$ ?

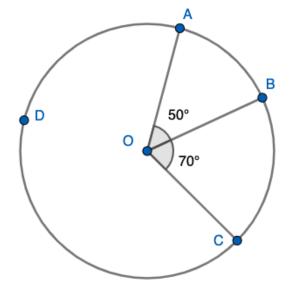


- 3. Given circle O with points on the circle  $A,\,B,\,C,\,D$  as shown. Find each central angle measure.
  - (a)  $m \angle AOB =$

ing point D that is  $> 180^{\circ}$ 

- (b)  $m \angle BOC =$
- (c)  $m \angle AOC =$
- (d) What is the measure of the reflex angle  $m\angle AOC =$ , i.e. the one contain-

https://www.geogebra.org/calculator/xqketuwj



Name:

## Mixed review

- 4. Given A(-1,2) and B(3,5), find the length of  $\overline{AB}$ . Show the substitution into the distance formula.
- 5. Find the volume of a pyramid  $(V = \frac{1}{3}Bh)$  having a height of 11.3 inches and with a square base having side lengths of 7 inches. Express your result to the *nearest cubic inch*.

6. Find the volume of a hemisphere with a radius of 30 inches, to the nearest whole cubic inch. (The formula for the volume of a sphere is  $V = \frac{4}{3}\pi r^3$  and a hemisphere is half of a sphere.)