**Geometry
Notes on Sectors and Segments of a Circle (Section 7.7)**

**Definitions:**

B

A

D

1.) sector of circle – is a region bounded by an \_\_\_\_\_\_ of a circle and
 two \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to the arc.

B

A

D

2.) segment of circle – The part of a circle bounded by an \_\_\_\_\_\_\_ and the
 segment joining its \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Area formulas**

Sector of Circle

$A= \frac{degree measure of arc}{360}\*πr^{2}$

Segment of Circle

$$A=area sector-area of triangle$$

Circle

$$A= πr^{2}$$

**Example #1:**

Find the area of each circle in terms of π:

Y

X

7

C

A

6

**Example #2:**

Find the area of each sector:

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Radius = 11

**Example #3:**

Find the area of each segment of the circles:

