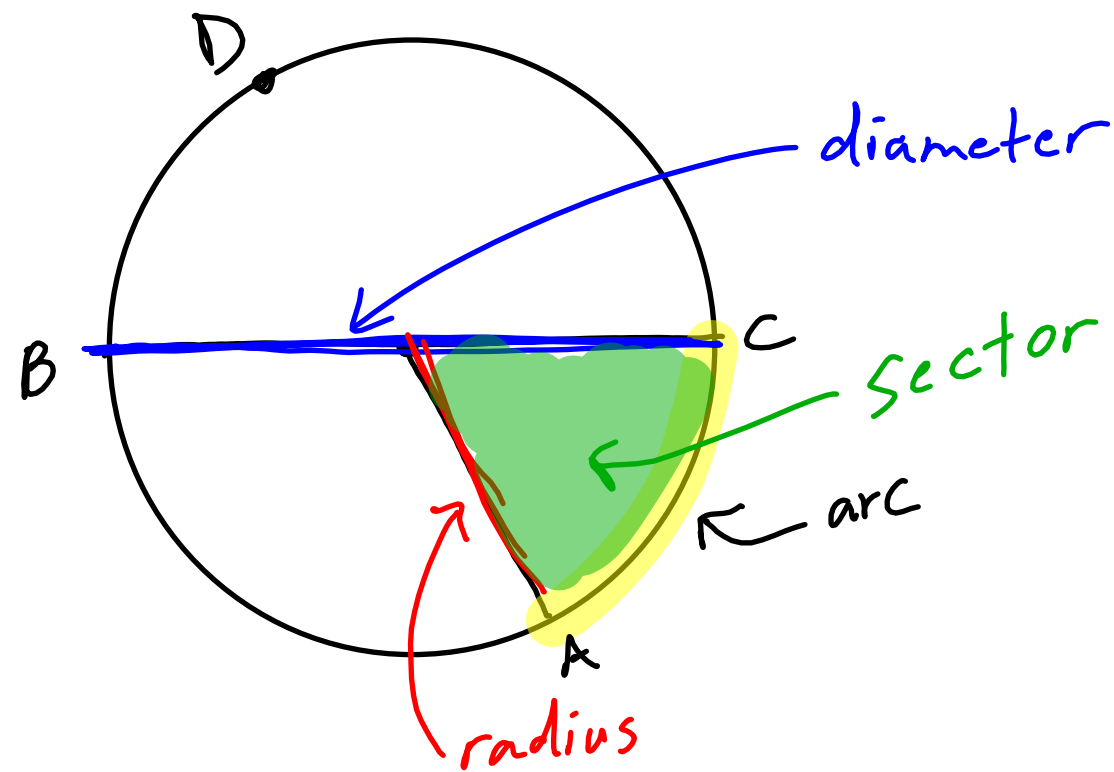


Arcs & Sectors of Circles



- major arcs \rightarrow greater than 180° (name w/ 3 pts.)

EX \rightarrow \widehat{ABC}

- minor arcs \rightarrow less than 180° (name w/ 2 pts.)

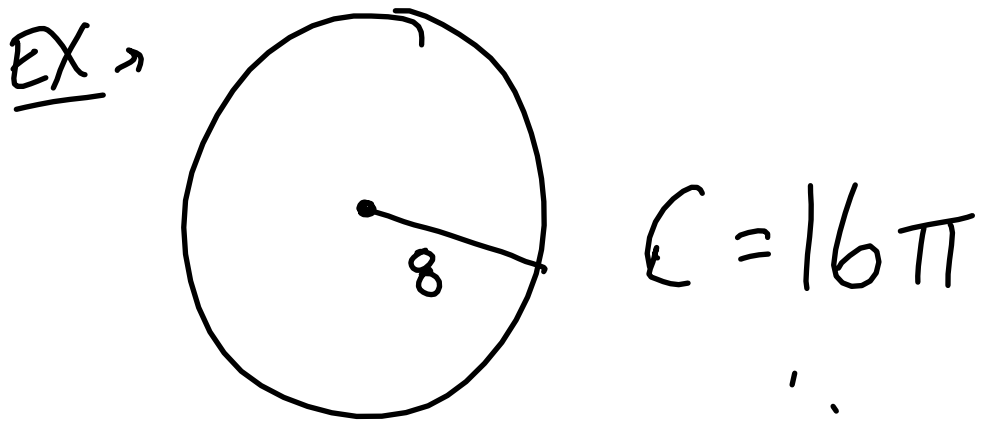
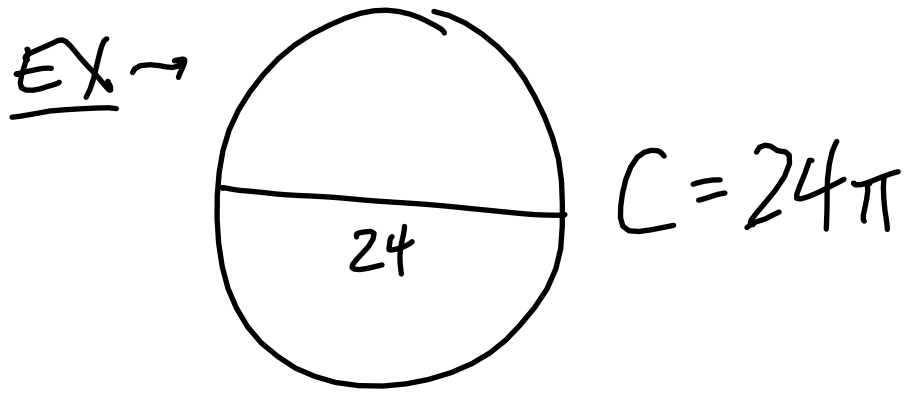
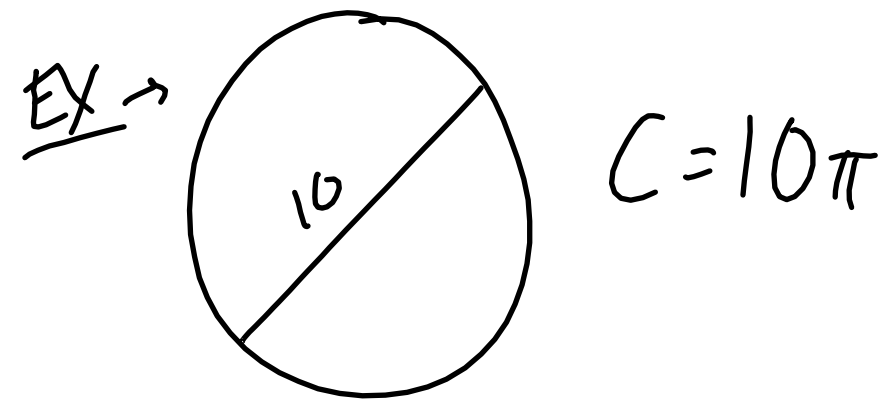
EX \rightarrow \widehat{AC}

- semi-circles \rightarrow $= 180^\circ$ (name w/ 3 pts.)

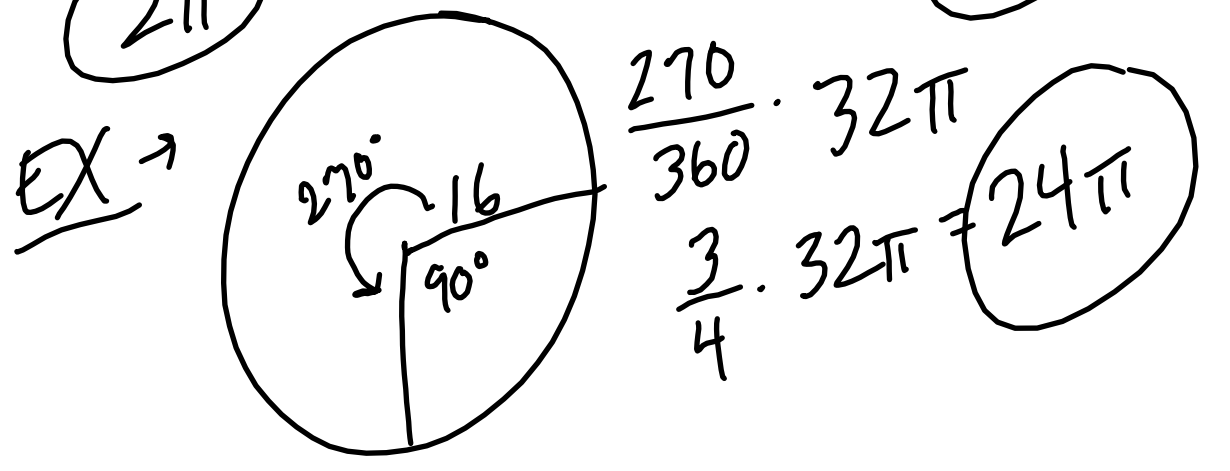
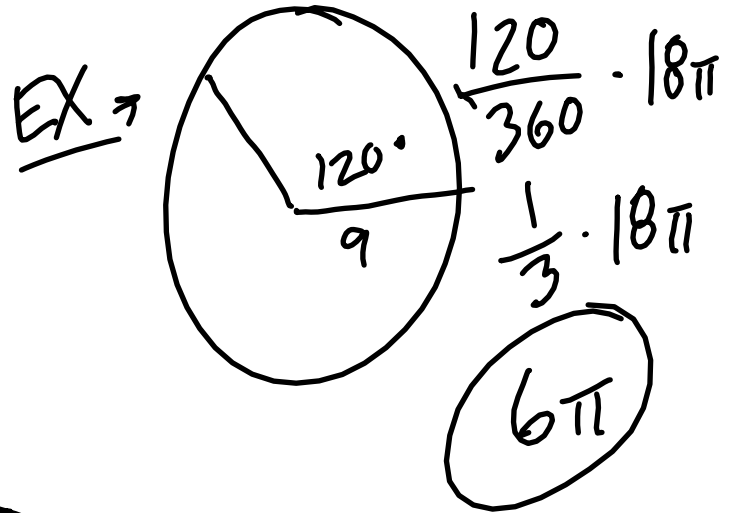
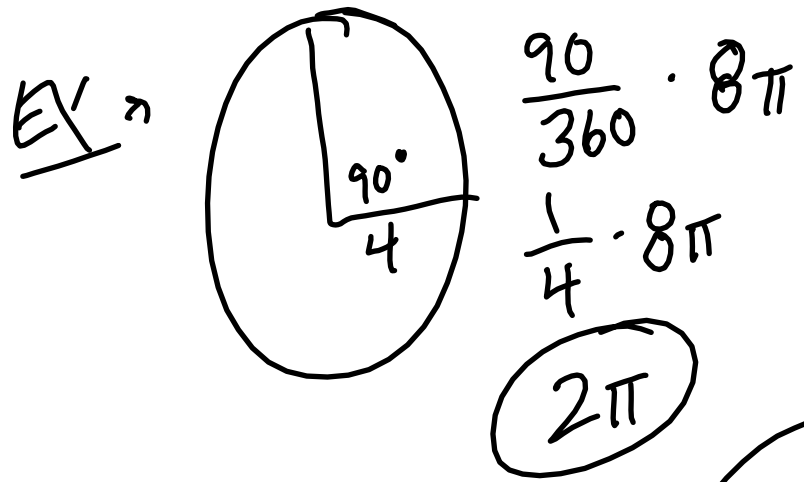
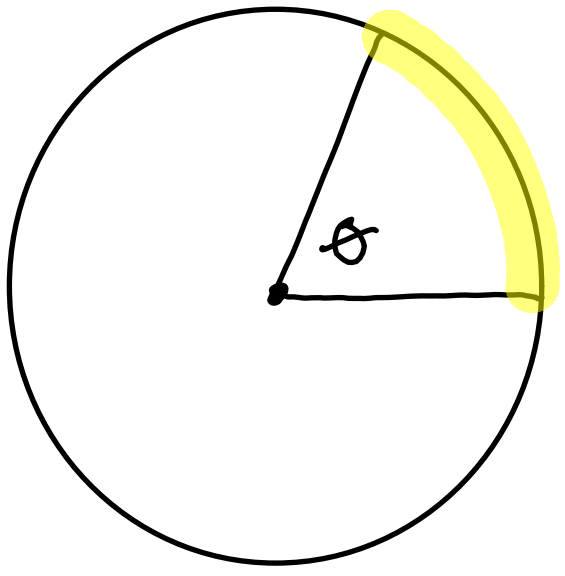
EX \rightarrow \widehat{CAB}

- Circumference \rightarrow "perimeter" of circle

$\hookrightarrow C = 2\pi r$ OR $C = \pi d$



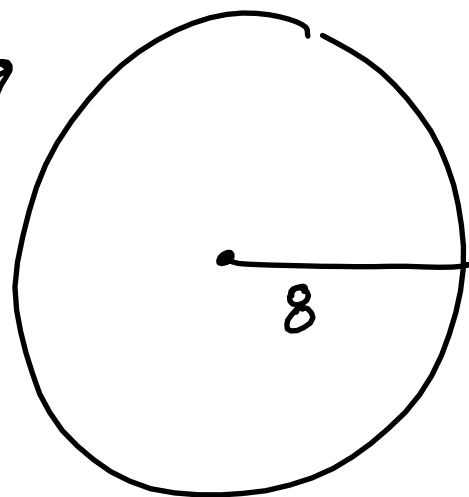
- Arc Length
 $\frac{\text{angle}}{360^\circ} \cdot \pi d$



- Area

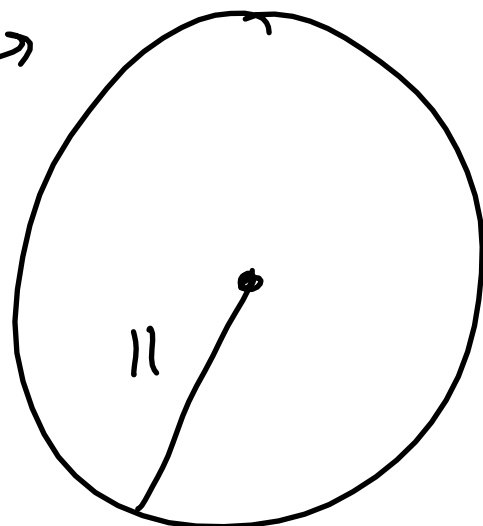
$$\hookrightarrow A = \pi r^2$$

EX \rightarrow



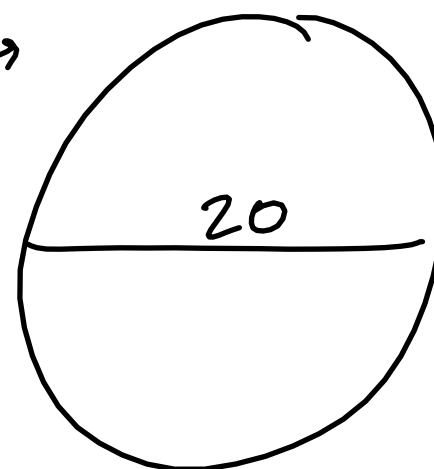
$$A = 64\pi$$

EX \rightarrow



$$A = 121\pi$$

EX \rightarrow

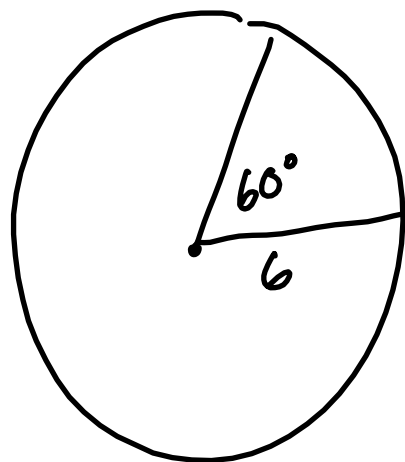


$$A = 100\pi$$

- Sector Area

$$\frac{\text{angle}}{360} \cdot \pi r^2$$

EX \rightarrow

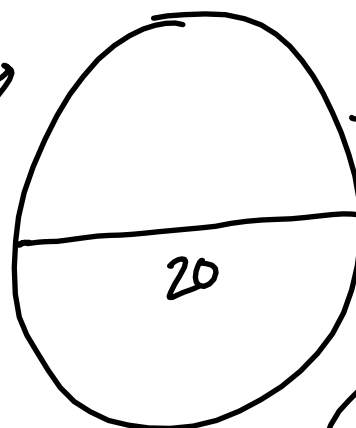


$$\frac{60}{360} \cdot 36\pi$$

$$\frac{1}{6} \cdot 36\pi$$

$$6\pi$$

EX \rightarrow

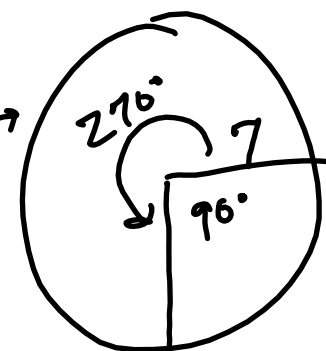


$$\frac{180}{360} \cdot 100\pi$$

$$\frac{1}{2} \cdot 100\pi$$

$$50\pi$$

EX \rightarrow



$$\frac{270}{360} \cdot 49\pi$$

$$\frac{3}{4} \cdot 49\pi$$

$$\frac{147}{4} \pi$$

HW: p. 654 \rightarrow 10-48 even (omit 36)

p. 663 \rightarrow 9-33 mult. 3, 48