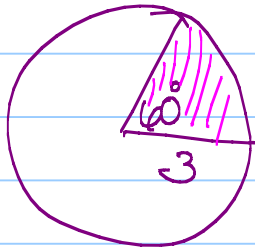


11.6: Areas of Circles, Sectors, & Segments

Note Title

2/12/2016

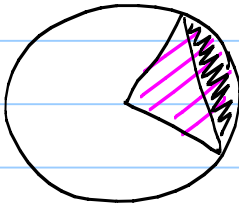
$$A_{\odot} = \pi r^2 \leftarrow 2\text{dim}$$



$$A_{\text{sector}} = \% A$$

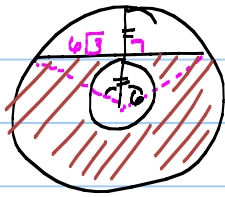
$$= \frac{60}{360} \pi 3^2 = \frac{1}{6} 9\pi = \frac{3}{2}\pi$$

Segment



$$A_{\text{SEG}} = A_{\text{SECTOR}} - A_{\Delta}$$

20.
a.



60°
6, 12 ⇒ 30°, 60°, 90°
x, x√3, 2x

$$A_{\text{BIG O}} - A_{\text{SMO}} - A_{\text{SECT}}$$

$$12^2 \pi - 6^2 \pi - [A_{\text{SECTOR}} - A_{\Delta}]$$

$$144\pi - 36\pi - \left[\frac{120}{360} \pi 12^2 - \frac{1}{2} (12\sqrt{3}) 6 \right]$$

$$108\pi - \left(\frac{1}{3} 144\pi - 36\sqrt{3} \right)$$

$$108\pi - 48\pi + 36\sqrt{3}$$

$$[60\pi + 36\sqrt{3} \text{ units}^2]$$

Homework 11.6: 6, 9, 11-15, 18