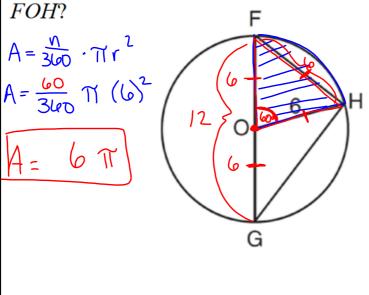
## **DO NOW**

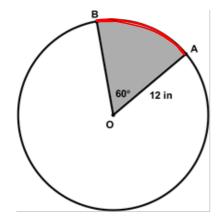
Triangle FGH is inscribed in circle O, the length of radius  $\overline{OH}$  is 6, and  $\overline{FH} \cong \overline{OG}$ .

What is the area of the sector formed by angle



Feb 15-9:58 AM

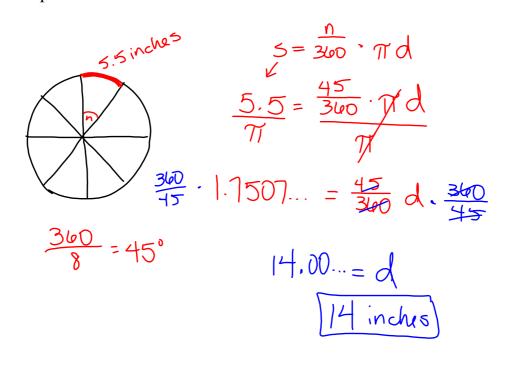
In Circle O shown below, with a radius of 12 inches, a sector has been defined by two radii with a central angle of 60 degrees as shown. Determine the length of  $\widehat{AB}$ 



$$\widehat{AB} = \frac{\cancel{60}}{\cancel{300}} \cdot \pi(24)$$

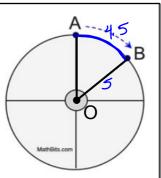
$$\widehat{AB} = 4\pi \text{ inches}$$

A circular pizza is divided into eight equal slices. The outer edge of the crust from one piece measures 5.5 inches. What is the diameter of the pizza to the *nearest inch*?



Feb 25-8:27 AM

A child pushes a playground merry-go-round so handle A moves to position B. The radius of the merry-go-round is 5 feet and the distance traveled by the handle along the arc from A to B is 4.5 feet. Find to the *nearest degree*, the measure of  $\angle AOB$ 



$$\widehat{AB} = \frac{n}{360} \cdot \pi d$$

$$\frac{4.5}{100} = \frac{n}{360} \cdot 10\pi$$

$$10\pi$$

$$10\pi$$

$$10\pi$$

$$1432... = \frac{n}{360}$$