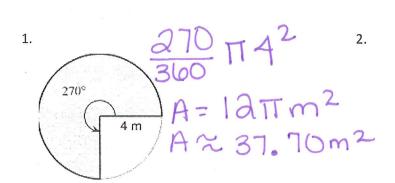
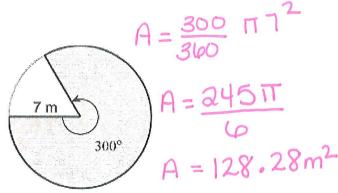
Hey

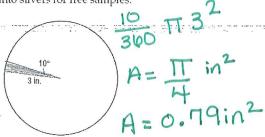
Area of Sectors and Segments HW- ACC

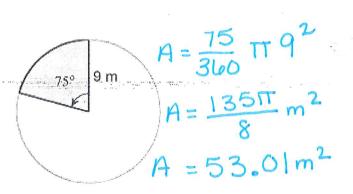
Find the area of the shaded region. Show in terms of pi and round to the nearest hundredth.



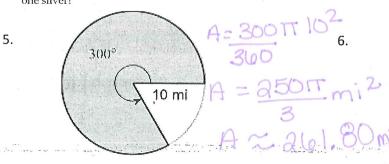


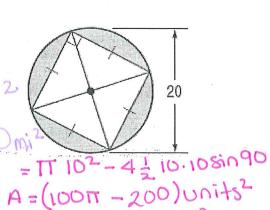
3. A grocery store is slicing a wheel of cheese into slivers for free samples.



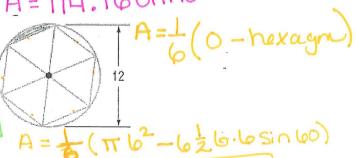


What is the area, in square inches, of one sliver?

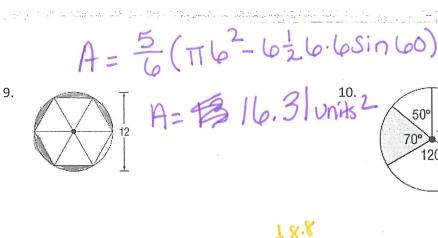


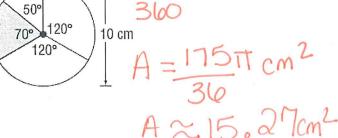


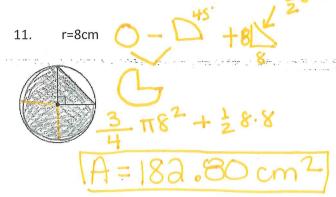
7. $\frac{1}{3}(\pi 8^{2} - 3\frac{1}{2} 8.88 \sin \frac{120}{8})$ $16 A = \frac{1}{3}(64\pi - 83.14)$ $A = 39.3 | \text{Units}^{2}|$



A = 3. albunits2







Find the missing variable.

13. The shaded area is $12\pi cm^2$. Find r.

$$A = \frac{120}{360} \text{ Tr}^2$$

$$12\pi = \frac{120}{360} \text{ Tr}^2$$

$$12 = \frac{120}{360} \text{ r}^2$$

$$12 = \frac{120}{360} \text{ r}^2$$

$$36 = r^2 \text{ r}^2 = \frac{120}{360} \text{ r}^2$$

15. The shaded area is $120\pi\text{cm}^2$ and the radius is 24cm. Find x.

$$120\pi = \frac{x}{360} \pi 24^{2}$$

$$120 = \frac{576 \times x}{360} = \frac{75^{\circ}}{360}$$

12. R = 12m, r = 9m $A = \frac{300}{340} (TR^{2} - Tr^{2})$ $A = \frac{300}{340} (T12^{2} - Trq^{2})$ $A = \frac{300}{360} (63T)$ $A = \frac{105T}{2}$ $A = 164.93m^{2}$

14. The shaded area is $32\pi\text{cm}^2$. Find r.

$$\frac{32\pi = \Pi 9^{2} - \pi r^{2}}{-49\pi} = \frac{-\pi r^{2}}{-\pi}$$

$$49 = -\pi r^{2}$$

$$49 = -\pi r^{2}$$

$$7 = -\pi r^{2}$$

$$7 = -\pi r^{2}$$

16. The shaded area is 10π cm². The radius of the large circle is 10 cm and the radius of the small circle is 8 cm. Find x.

$$10\pi = \frac{x}{360}(\pi 10^{2} - \pi 8^{2})$$

$$10\pi = \frac{x}{360}(360\pi)$$

$$10 = \frac{36x}{360}$$

$$10 = \frac{36x}{360}$$