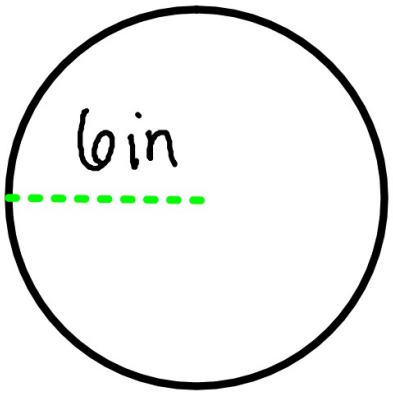
L40 Area of Circles

πr^2

find area in terms of π



leave π as π

$\pi(6in)^2 = 36\pi in^2$

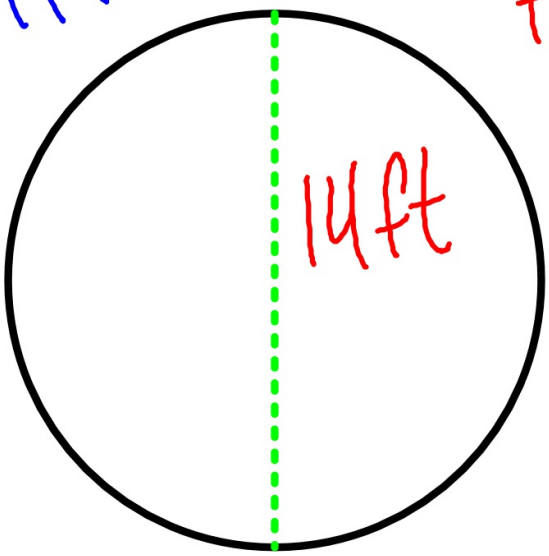
use 3.14 for π

$36(3.14)in^2$

3.14
× 36
1884
9 420
11 3.04

πr^2

find area, use $\frac{22}{7}$ as π

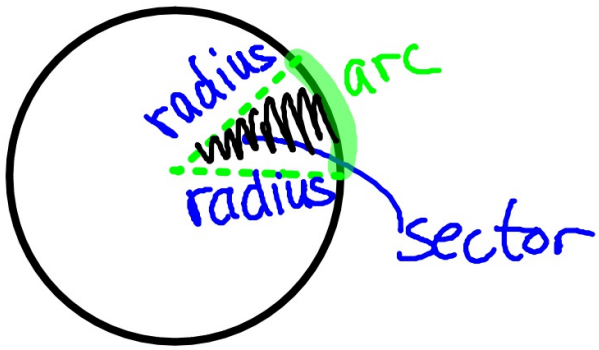


$\frac{22}{7}(7^2)$

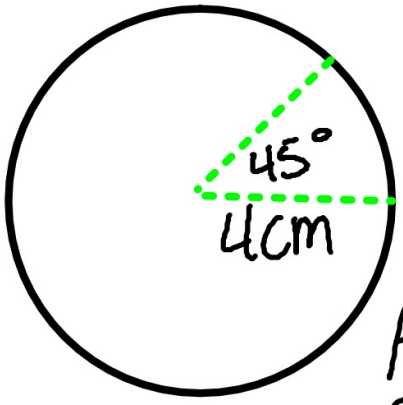
$\frac{22}{7} \cdot \frac{49}{1} = 154ft^2$

Circumference = πd

Area = πr^2



find area of sector



$\frac{45^\circ}{360^\circ} = \frac{1}{8}$

leave π as π

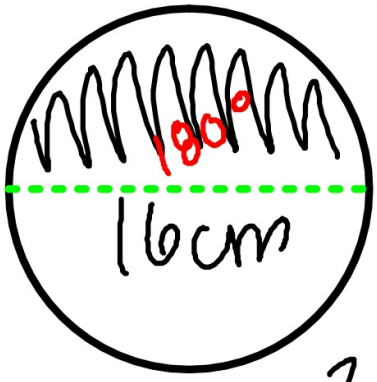
Area of entire circle $= \pi r^2$

$= \pi 16\text{cm}^2$

$\frac{1}{8} \times 16\pi\text{cm}^2$

$2\pi\text{cm}^2$

find area, leave π as π

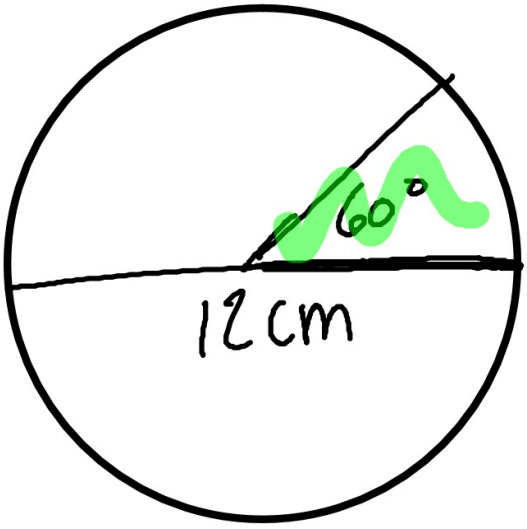


$\frac{180}{360} \div 2 = \frac{9}{18} \div 9 = \frac{1}{2}$

$\pi r^2 = (8\text{cm})^2 \pi$

$64\pi\text{cm}^2 \left(\frac{1}{2}\right)$

$32\pi\text{cm}^2$



$\frac{60}{360} = \frac{1}{6}$

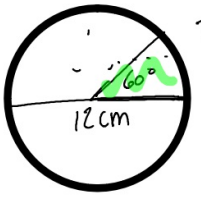
πr^2

$6^2\pi$

$36\pi \left(\frac{1}{6}\right)$

$6\pi cm^2$

Always leave π as π until the end...



$\frac{360}{60} \quad 6$

πr^2

$6^2\pi$

$36\pi \left(\frac{1}{6}\right)$

$6\pi cm^2$

3.14 as π

~~$36(3.14)$~~

$\begin{array}{r} 3.14 \\ \times\ 6 \\ \hline 18.84 \end{array}$