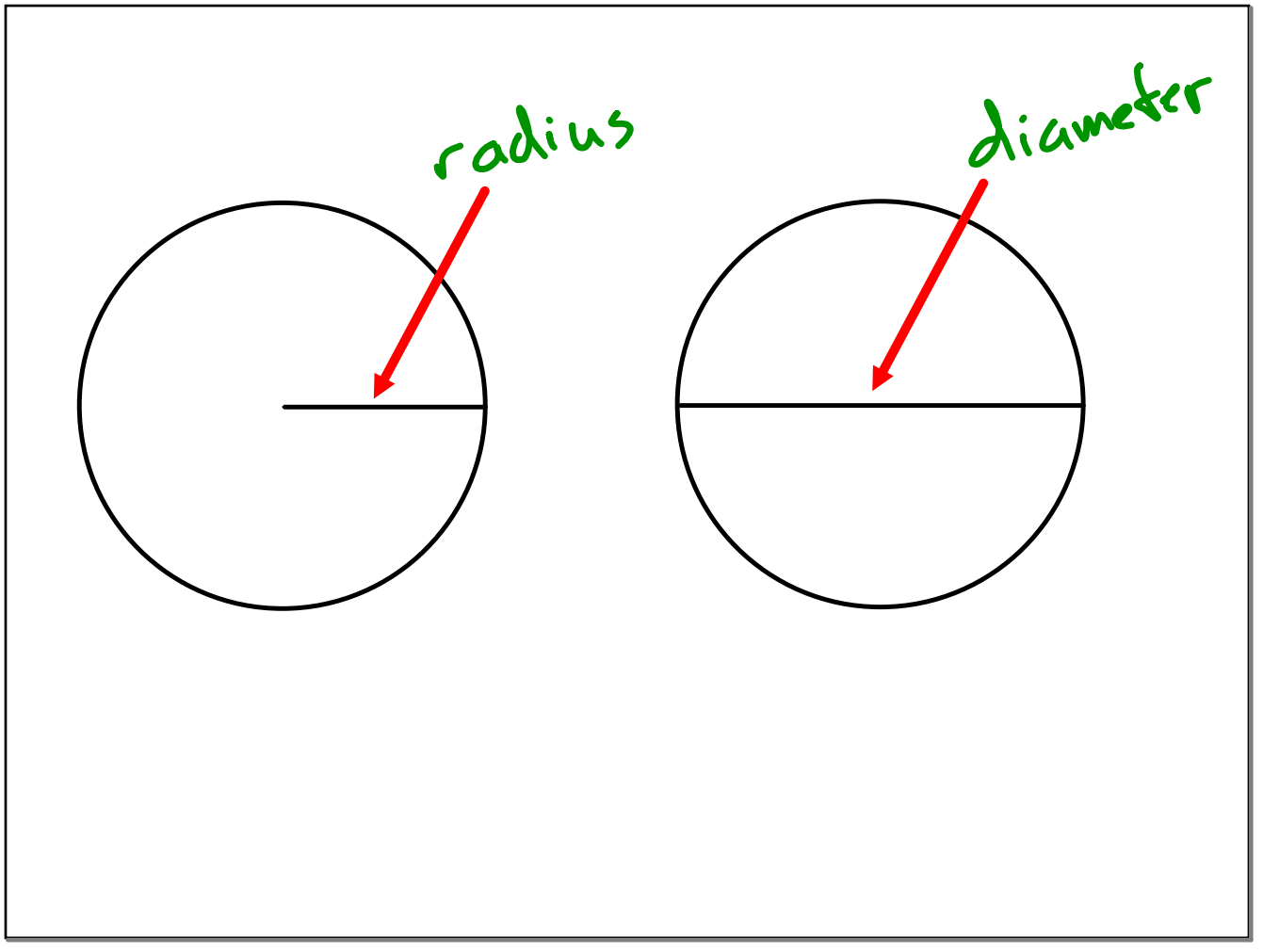
HW: pg. 597/7-11
pg. 604-605/7-9

March 9, 2022



circumference - the perimeter of a circle

$\pi = 3.1415926\ldots$

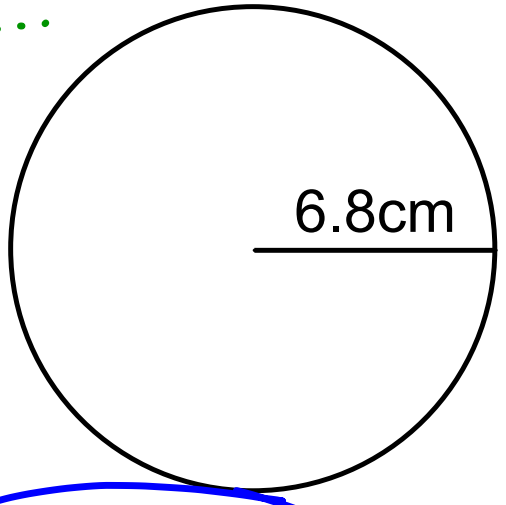
$\pi \approx 3.14$

$$C = 2\pi r$$

$2(3.14)(6.8)$

42.704

$\approx 42.70\text{ cm}$



$C = \pi d$

$C = 2\pi r$

$= \pi \cdot 2 \cdot r$

$= \pi d$

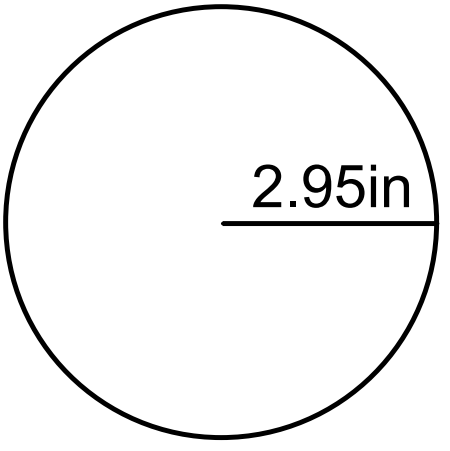
Area of a Circle

$$A = \pi r^2$$

$3.14(2.95)^2$

27.32585

$\approx 27.33 \text{ in}^2$



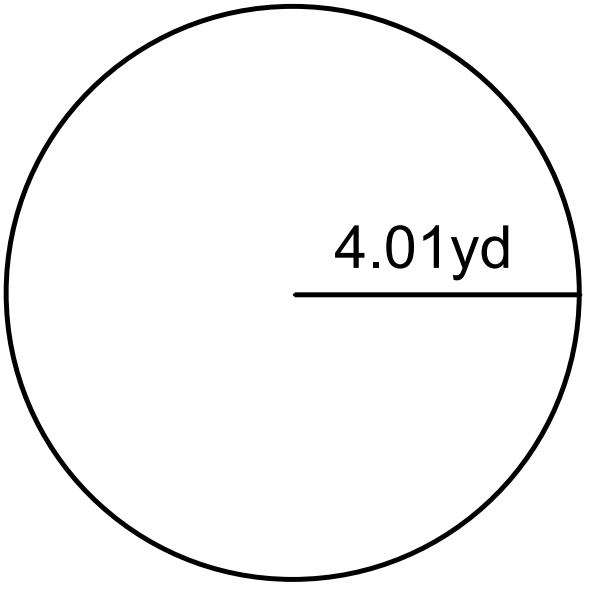
Find the circumference and area.

$C = 2(3.14)(4.01)$

25.18 yd

$A = 3.14(4.01)^2$

50.49 yd^2



Find the circumference and area.

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

$\frac{7.2}{2} = 3.6$

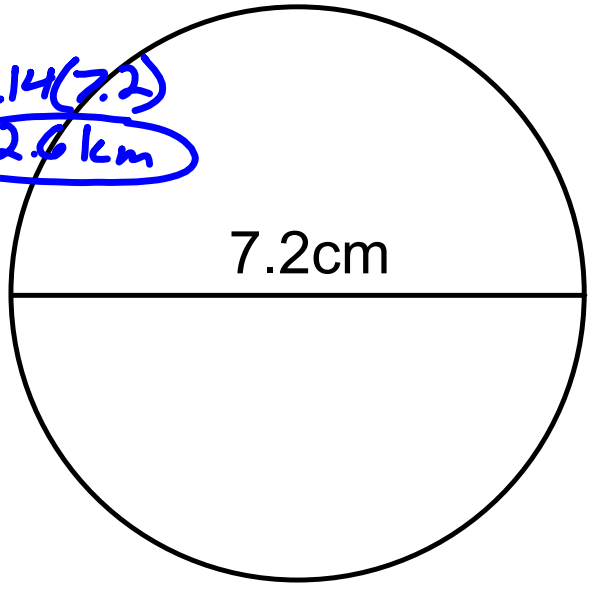
$C = 2(3.14)(3.6)$

22.608

$\approx 22.61 cm$

$3.14(7.2)$

$22.61 cm$



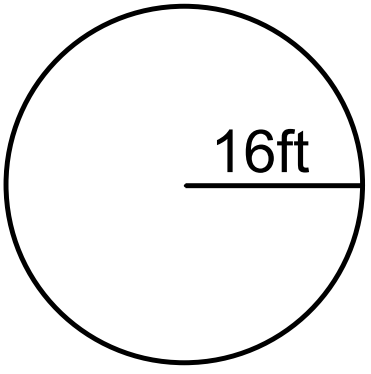
$A = 3.14(3.6)^2$

40.6944

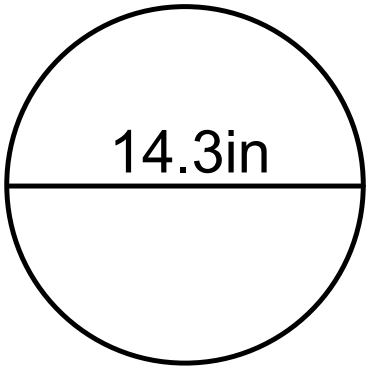
$\approx 40.69 cm^2$

Find the circumference and area.

1)

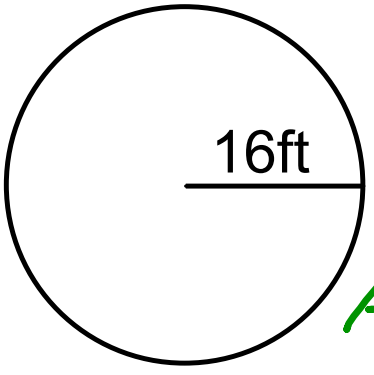


2)



3) The tip-off circle on a basketball court has a radius of 6ft. What is the area of the tip-off circle?

1)



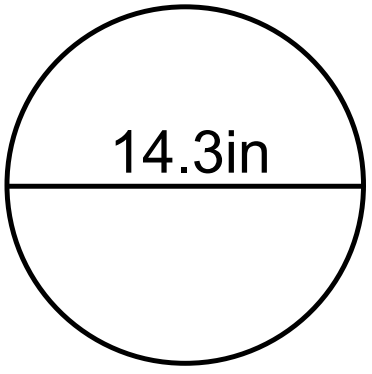
$C = 2(3.14)(16)$

$100.48 ft$

$A = 3.14(16)^2$

$803.84 ft^2$

2)



$\frac{14.3}{2} = 7.15$

$C = 2(3.14)(7.15)$

or

$3.14(14.3)$

44.90 in

$A = 3.14(7.15)^2$

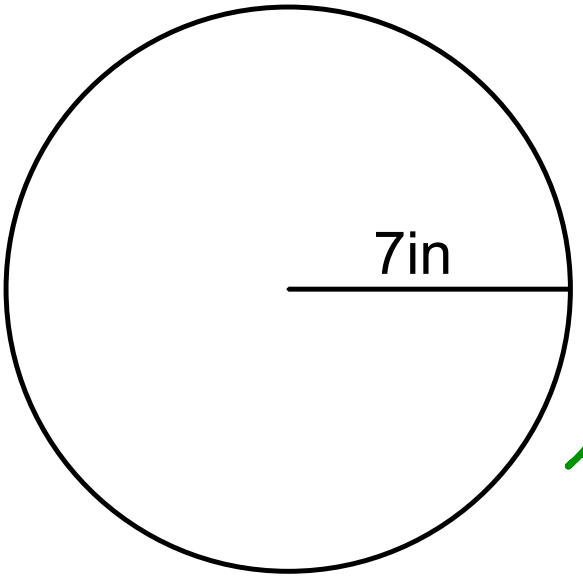
160.52 in^2

3) The tip-off circle on a basketball court has a radius of 6ft. What is the area of the tip-off circle?

$3.14(6)^2$

$113.04 ft^2$

Expressing your answer in terms of pi



Find the circumference and area. Express your answer using pi.

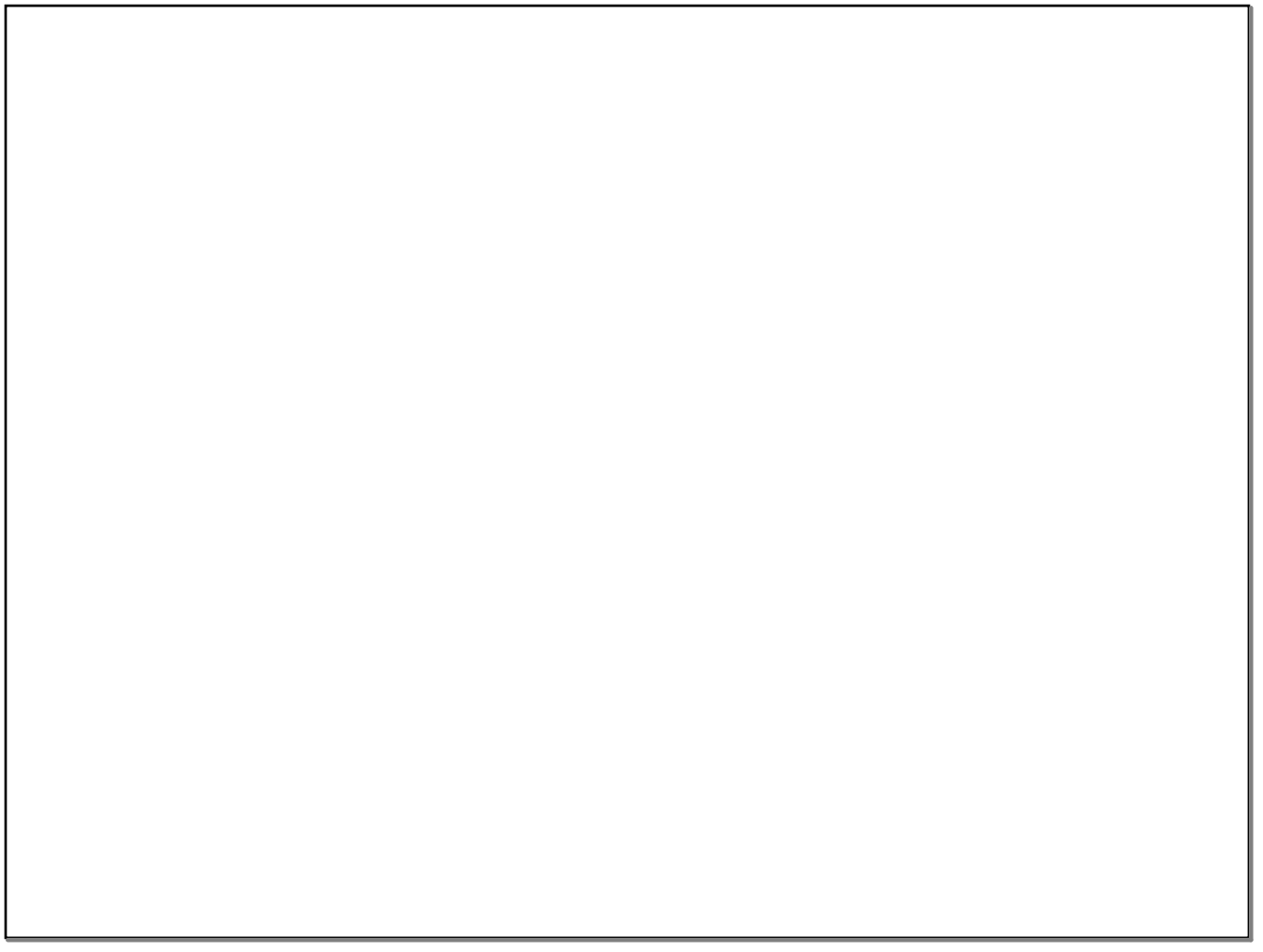
$C = 2 \cdot \pi \cdot 7$

$= 14\pi$ in

$A = \pi r^2$

$\pi \cdot 7^2 = 49\pi$ in^2

March 9, 2022



March 9, 2022