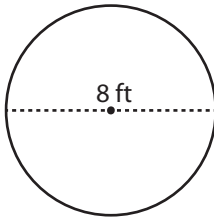


Circle - Area

Example :



$$\text{Area of a circle} = \pi r^2$$

$$\text{Diameter} = 8 \text{ ft}$$

$$\text{Radius } (r) = 4 \text{ ft}$$

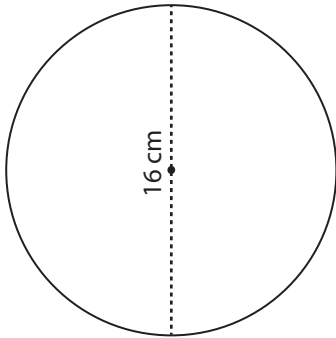
$$\text{Area} = \pi r^2$$

$$= \pi \times 4 \times 4$$

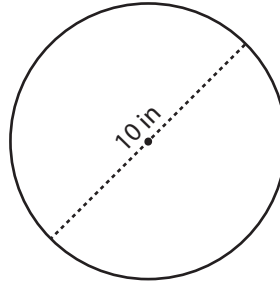
$$\text{Area} = \mathbf{16\pi \text{ ft}^2}$$

Find the exact area of each circle.

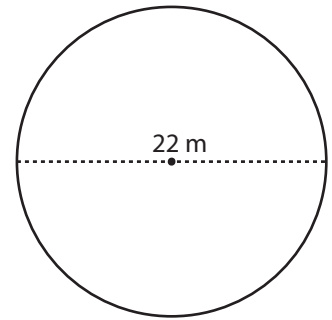
1)

Area =

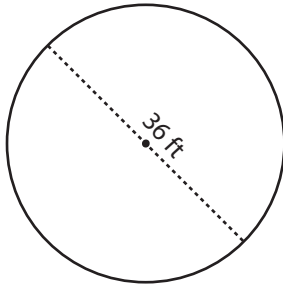
2)

Area =

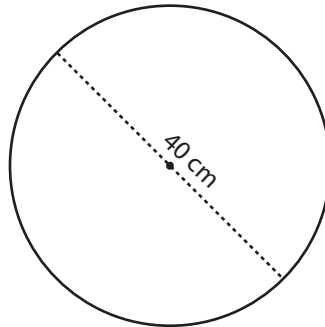
3)

Area =

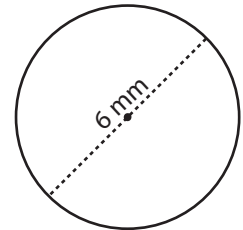
4)

Area =

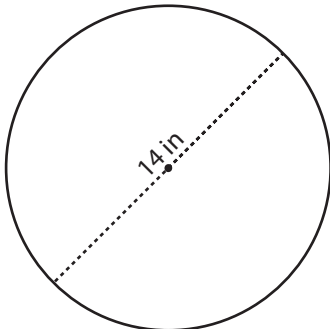
5)

Area =

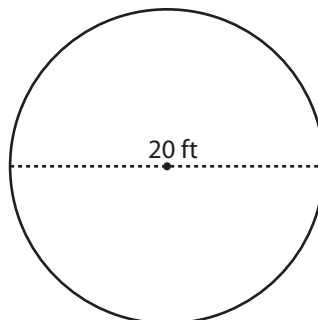
6)

Area =

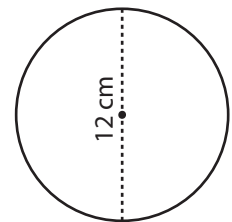
7)

Area =

8)

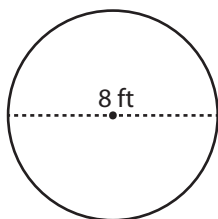
Area =

9)

Area =

Answer Key

Example :



Area of a circle = πr^2

Diameter = 8 ft

Radius (r) = 4 ft

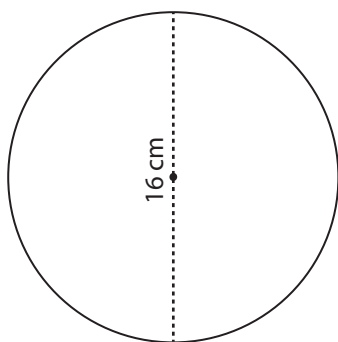
Area = πr^2

= $\pi \times 4 \times 4$

Area = **$16\pi \text{ ft}^2$**

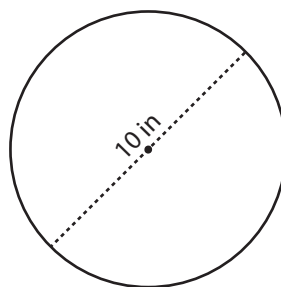
Find the exact area of each circle.

1)



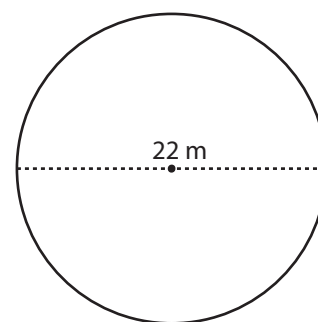
Area = **$64\pi \text{ cm}^2$**

2)



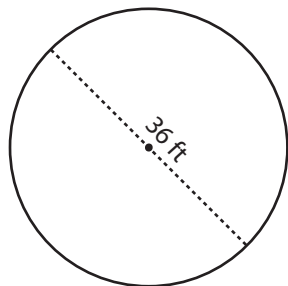
Area = **$25\pi \text{ in}^2$**

3)



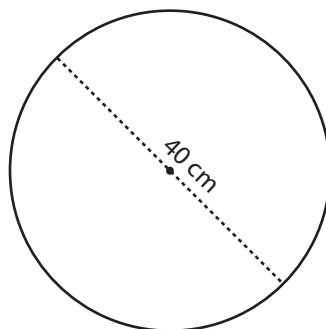
Area = **$121\pi \text{ m}^2$**

4)



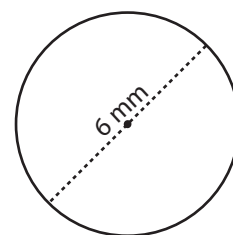
Area = **$324\pi \text{ ft}^2$**

5)



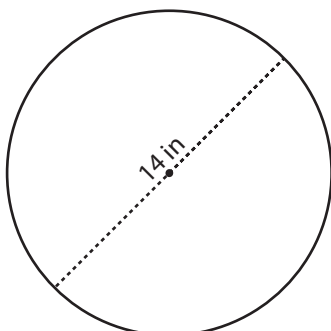
Area = **$400\pi \text{ cm}^2$**

6)



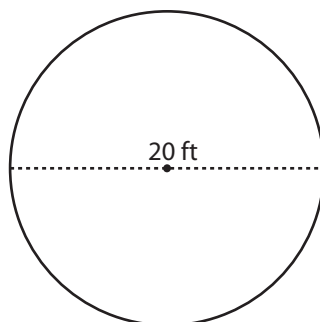
Area = **$9\pi \text{ mm}^2$**

7)



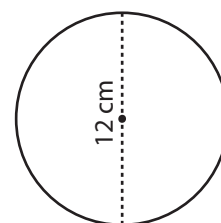
Area = **$49\pi \text{ in}^2$**

8)



Area = **$100\pi \text{ ft}^2$**

9)



Area = **$36\pi \text{ cm}^2$**