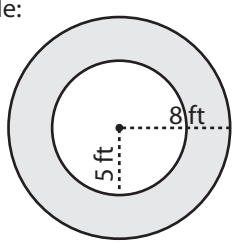
Name : _____ Score : _____

Easy: S1

Concentric Circle - Area

Example:



Area of shaded region = (Area of outer circle) - (Area of inner circle)

$= \pi R^2 - \pi r^2$

$= \pi (R^2 - r^2)$

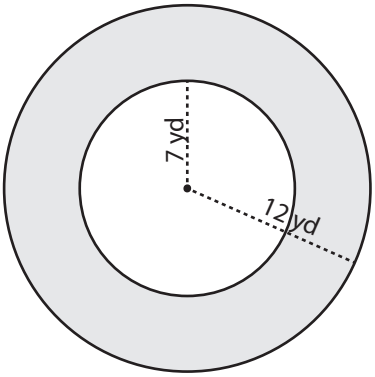
$= \pi (8^2 - 5^2)$

$= \pi (64 - 25)$

$= \mathbf{39\pi\ ft^2}$

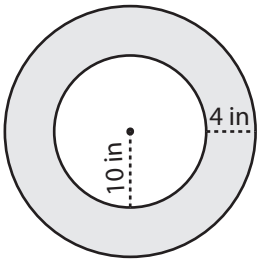
Find the exact area of each shaded region.

1)



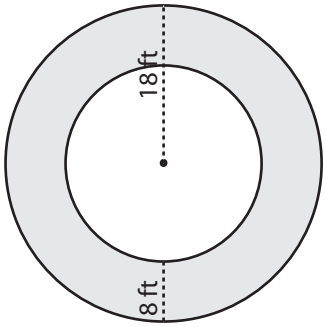
Area = ☐

2)



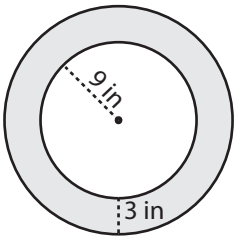
Area = ☐

3)



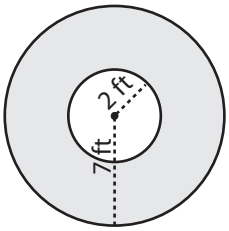
Area = ☐

4)



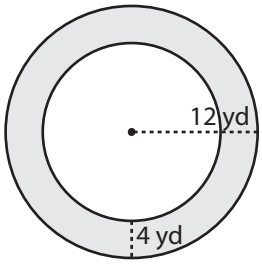
Area = ☐

5)



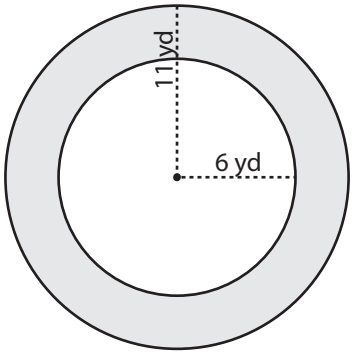
Area = ☐

6)



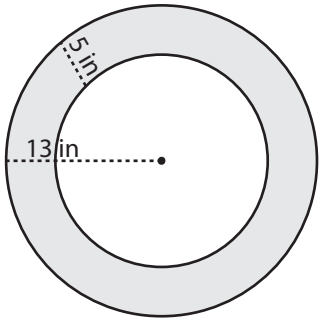
Area = ☐

7)



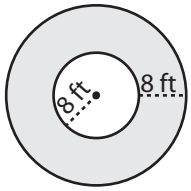
Area = ☐

8)



Area = ☐

9)



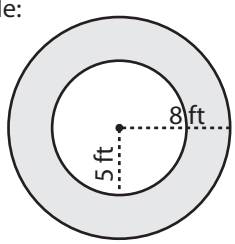
Area = ☐

Name : _____ **Answer Key** Score : _____

Easy: S1

Concentric Circle - Area

Example:



Area = ?

Area of shaded region = (Area of outer circle) - (Area of inner circle)

$= \pi R^2 - \pi r^2$

$= \pi (R^2 - r^2)$

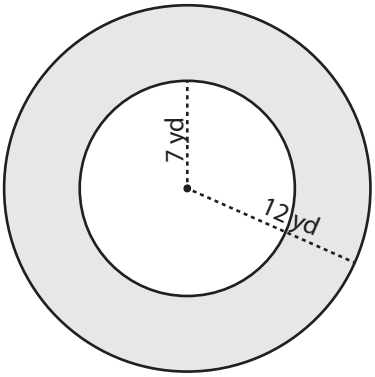
$= \pi (8^2 - 5^2)$

$= \pi (64 - 25)$

$= \mathbf{39\pi\ ft^2}$

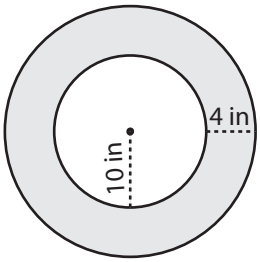
Find the exact area of each shaded region.

1)



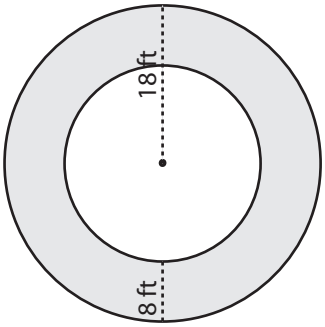
Area = **$95\pi\ yd^2$**

2)



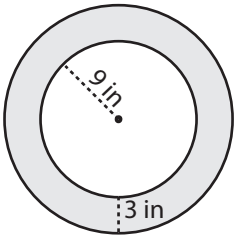
Area = **$96\pi\ in^2$**

3)



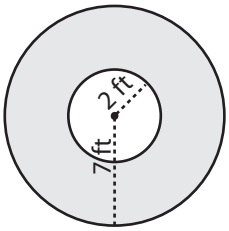
Area = **$224\pi\ ft^2$**

4)



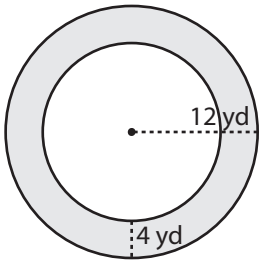
Area = **$63\pi\ in^2$**

5)



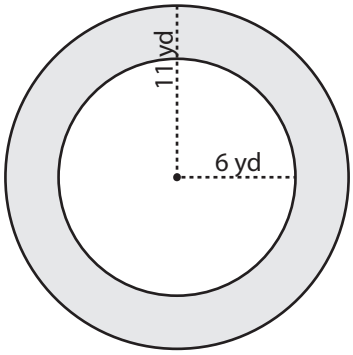
Area = **$45\pi\ ft^2$**

6)



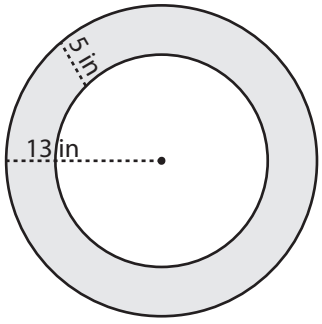
Area = **$80\pi\ yd^2$**

7)



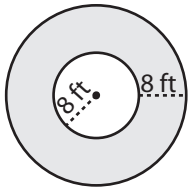
Area = **$85\pi\ yd^2$**

8)



Area = **$105\pi\ in^2$**

9)



Area = **$192\pi\ ft^2$**