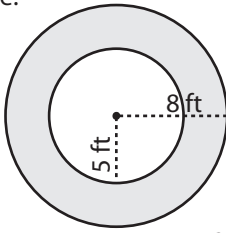


**Concentric Circle - Area**

Example:



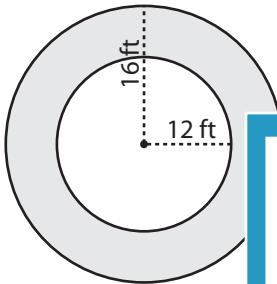
Area = ?

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

$$\begin{aligned}
 &= \pi R^2 - \pi r^2 \\
 &= \pi ( R^2 - r^2 ) \\
 &= \pi ( 8^2 - 5^2 ) \\
 &= \pi ( 64 - 25 ) \\
 &= \mathbf{39\pi \text{ ft}^2}
 \end{aligned}$$

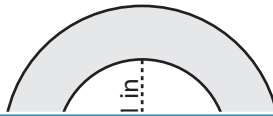
Find the area of the shaded region in terms of  $\pi$ .

1)

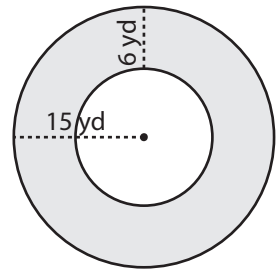


Area =

2)

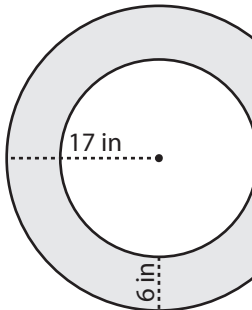


3)

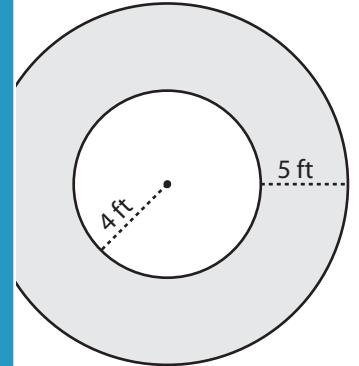


Area =

4)

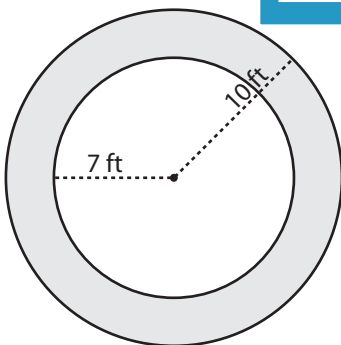


Area =

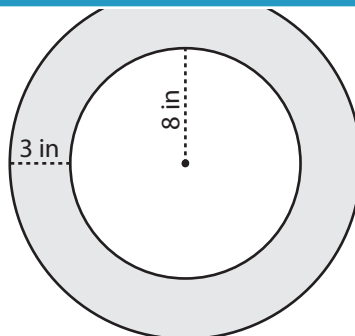


Area =

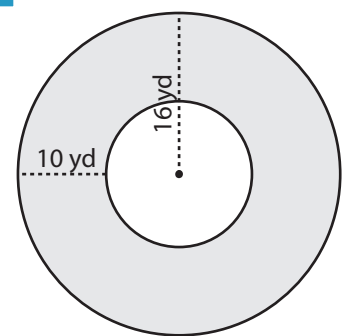
7)



Area =



Area =



Area =

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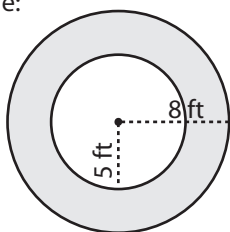
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Name : \_\_\_\_\_

**Concentric Circle - Area**

Example:

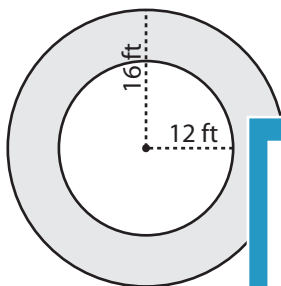


Area = ?

$$\begin{aligned} \text{Area of shaded region} &= (\text{Area of outer circle}) - (\text{Area of inner circle}) \\ &= \pi R^2 - \pi r^2 \\ &= \pi (R^2 - r^2) \\ &= \pi (8^2 - 5^2) \\ &= \pi (64 - 25) \\ &= \mathbf{39\pi \text{ ft}^2} \end{aligned}$$

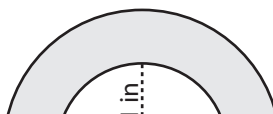
Find the area of the shaded region in terms of  $\pi$ .

1)

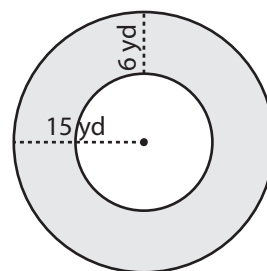


Area =  $\mathbf{112\pi \text{ ft}^2}$

2)

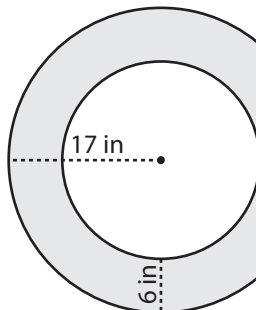


3)

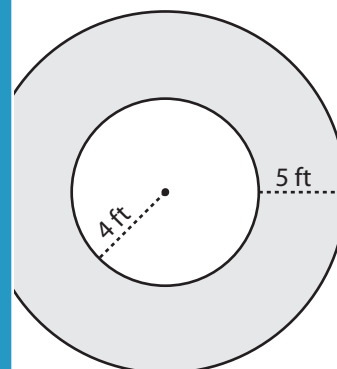


Area =  $\mathbf{144\pi \text{ yd}^2}$

4)

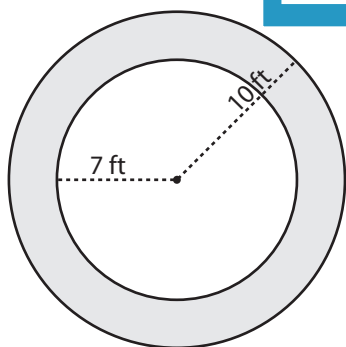


Area =  $\mathbf{168\pi \text{ in}^2}$

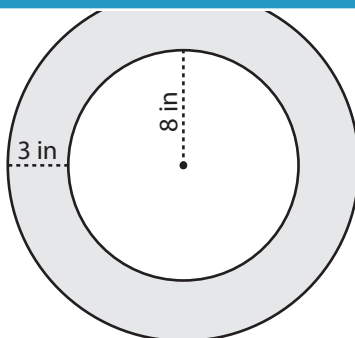


Area =  $\mathbf{65\pi \text{ ft}^2}$

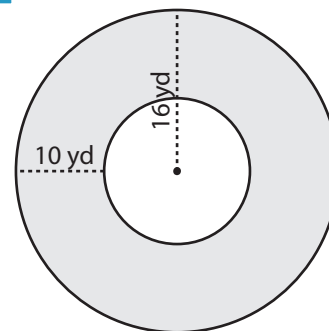
7)



Area =  $\mathbf{51\pi \text{ ft}^2}$



Area =  $\mathbf{57\pi \text{ in}^2}$



Area =  $\mathbf{220\pi \text{ yd}^2}$

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