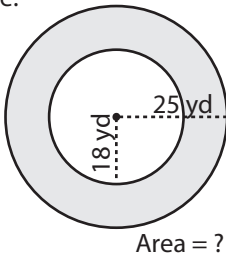


Concentric Circle - Area

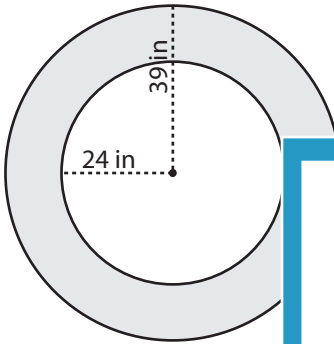
Example:



$$\begin{aligned} \text{Area of shaded region} &= (\text{Area of outer circle}) - (\text{Area of inner circle}) \\ &= \pi R^2 - \pi r^2 \\ &= \pi (R^2 - r^2) \\ &= 3.14 \times (25^2 - 18^2) \\ &= 3.14 \times (625 - 324) \\ &= \mathbf{945.1 \text{ yd}^2} \end{aligned}$$

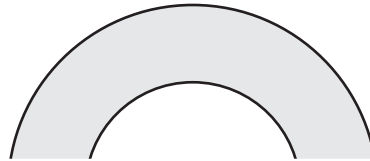
Find the area of each shaded region. Round your answer to the nearest tenth. (use $\pi = 3.14$)

1)

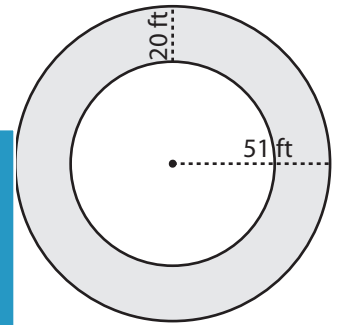


Area =

2)

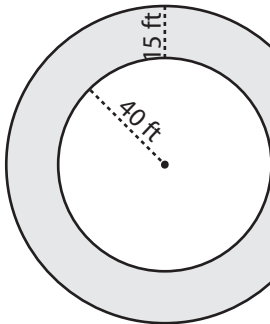


3)

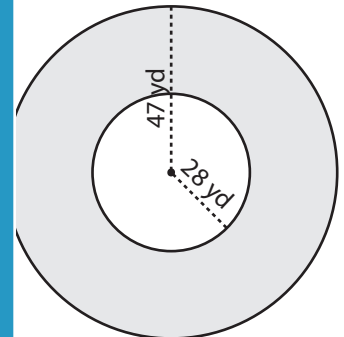


Area =

4)

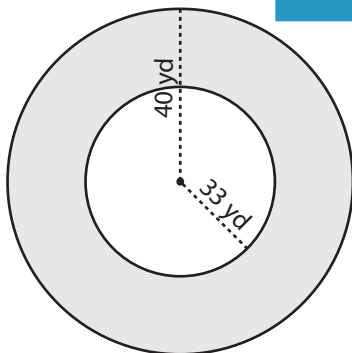


Area =

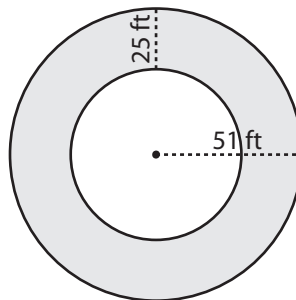


Area =

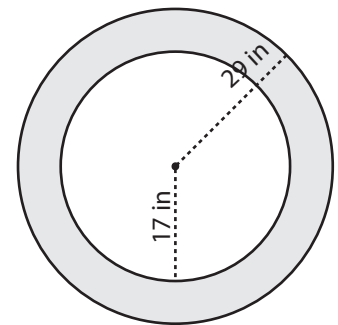
7)



Area =



Area =



Area =

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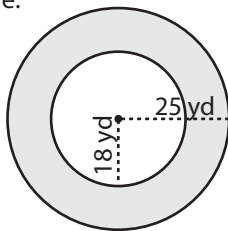
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Concentric Circle - Area

Example:

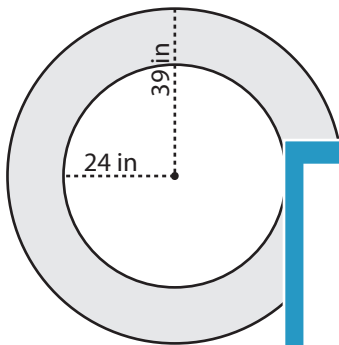


Area = ?

$$\begin{aligned} \text{Area of shaded region} &= (\text{Area of outer circle}) - (\text{Area of inner circle}) \\ &= \pi R^2 - \pi r^2 \\ &= \pi (R^2 - r^2) \\ &= 3.14 \times (25^2 - 18^2) \\ &= 3.14 \times (625 - 324) \\ &= \mathbf{945.1 \text{ yd}^2} \end{aligned}$$

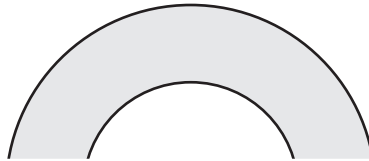
Find the area of each shaded region. Round your answer to the nearest tenth. (use $\pi = 3.14$)

1)

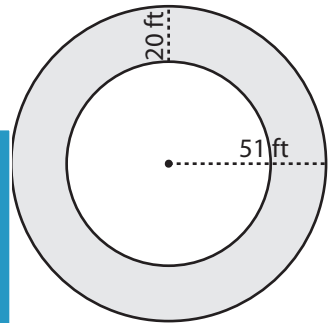


Area = **2967.3 in²**

2)

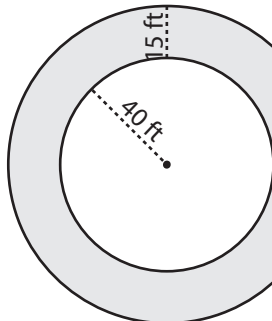


3)

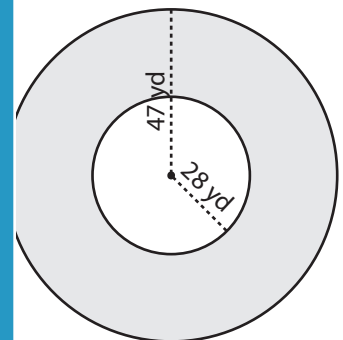


Area = **5149.6 ft²**

4)

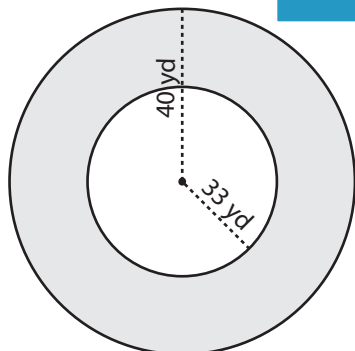


Area = **4474.5 ft²**

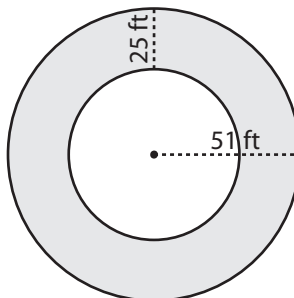


Area = **4474.5 yd²**

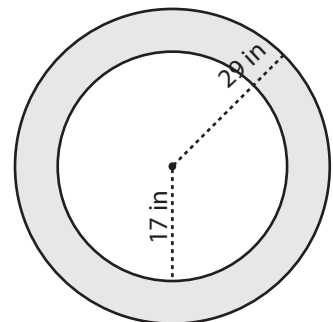
7)



Area = **1604.5 yd²**



Area = **6044.5 ft²**



Area = **1733.3 in²**

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