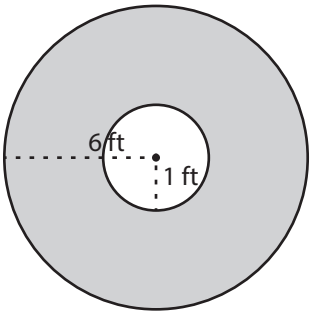
# Area of Concentric Circles

Name _____

Score _____

AC:35

Example : Find the area of the shaded region. (Use $\pi = \frac{22}{7}$ or 3.14)




Area of shaded region = Area of the outer circle − Area of the inner circle

$= \pi R^2 - \pi r^2$ ; R = 6 ft , r = 1 ft

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

$= 3.14 \times (6^2 - 1^2)$

$= 3.14 \times (36 - 1) = 3.14 \times 35 =$ **109.9 ft²**

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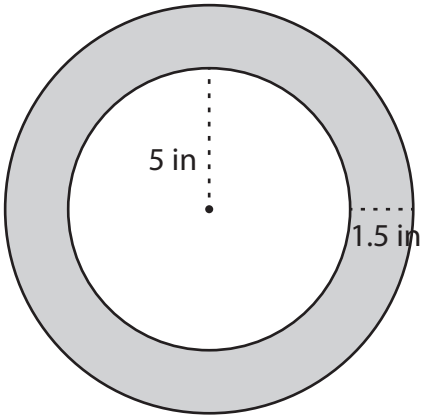
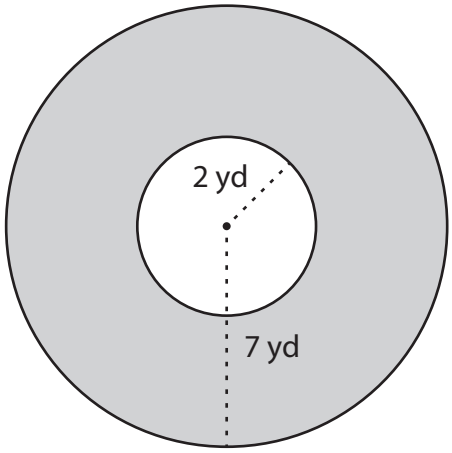
Find the area of the shaded region. (Use $\pi = \frac{22}{7}$ or 3.14)

1)



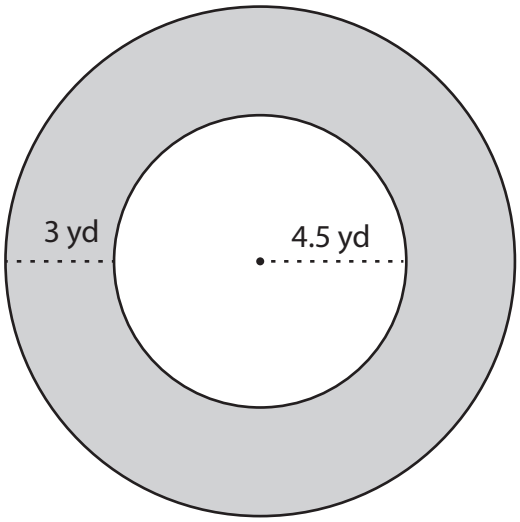

Area =

2)



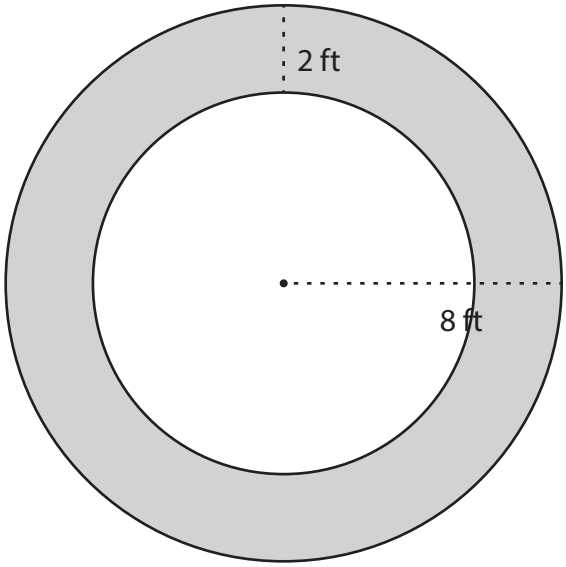

Area =

3)




Area =

4)

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**Answer key**

AC:35

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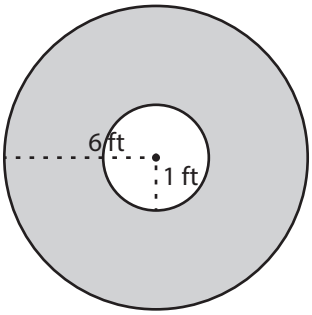


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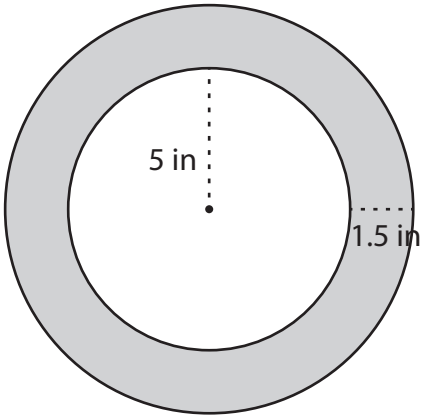
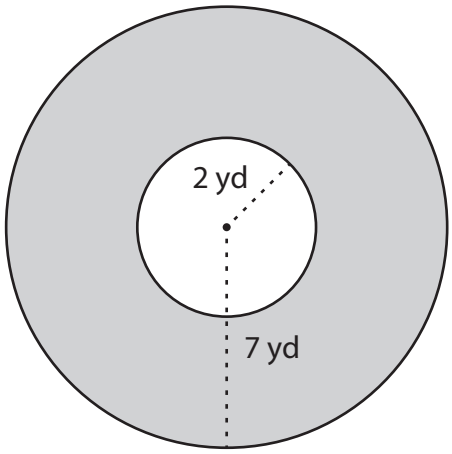


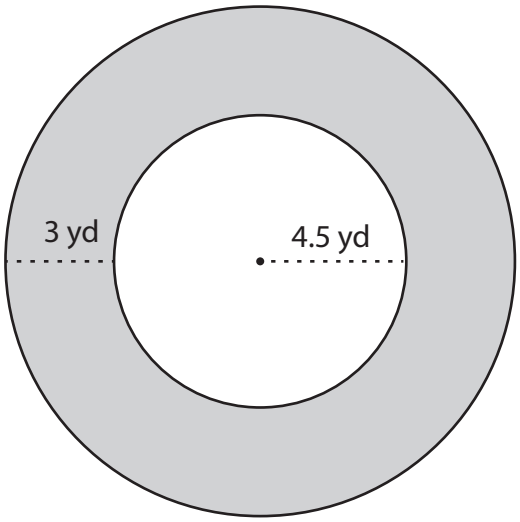

Area = **54.165 in²**

2)



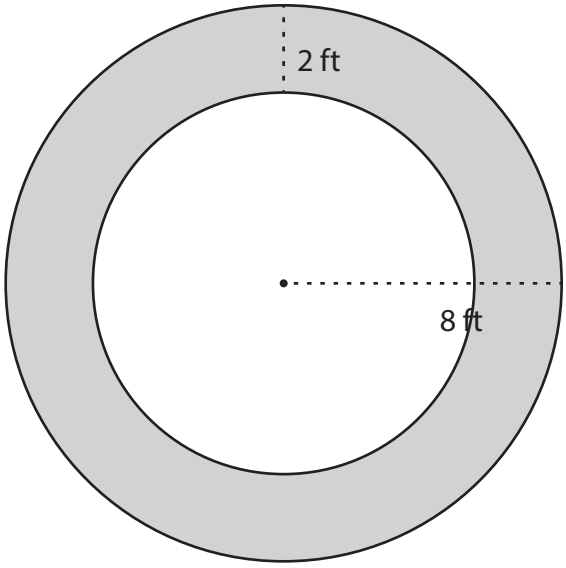

Area = **141.3 yd²**

3)




Area = **113.04 yd²**

4)




Area = **87.92 ft²**