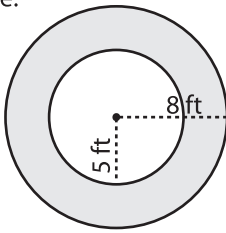Name : _____

Concentric Circle - Area

Example:

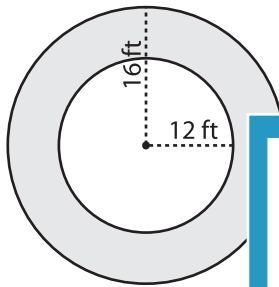8 ft
5 ft
Area = ?

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 area of the shaded region in terms of π.

1)

16 ft
12 ft

Area = _____

2)

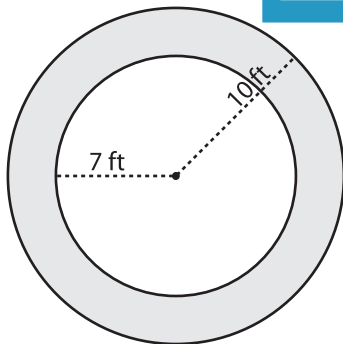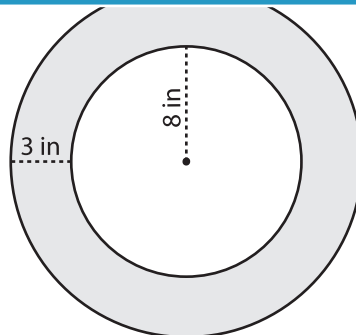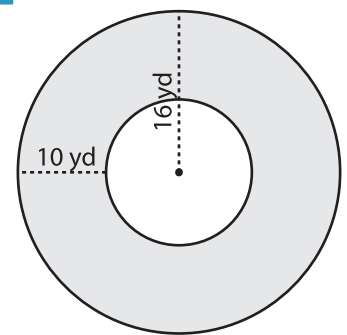1 in

3)

6 yd
15 yd
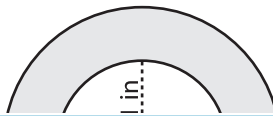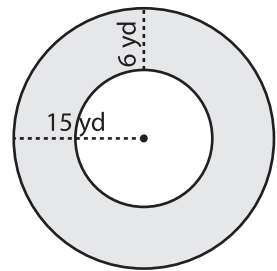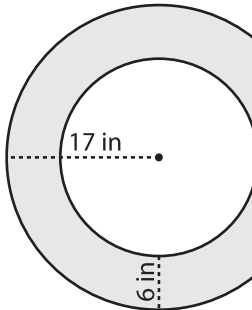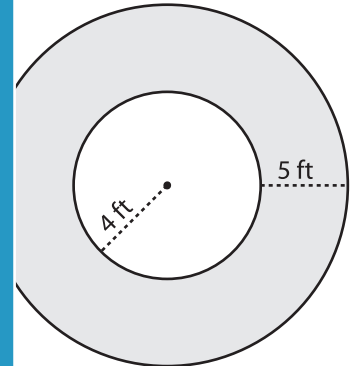
Area = _____

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4)

17 in
6 in

Area = _____

5 ft
4 ft

Area = _____

7)

10 ft
7 ft

Area = _____

8 in
3 in

Area = _____

16 yd
10 yd

Area = _____